# ELECTRO METER CORPORATION

NABL Accredited Calibration Laboratory

# PRODUCT CATALOGUE

2019 - 2020

## TESTING AND MEASURING INSTRUMENTS

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Electro Meter Bangladesh Limited is a Wholly Owned Subsidiary of Electro Meter Corporation, India and had incorporated itself in the heart if Bangladesh under Registrar of Joint Stock Companies, Government of Bangladesh vide incorporation no C-141734 / 2017.

Being a pioneer Calibration Laboratory (Electro Meter Corporation) with ISO 17025: 2005 accreditation under the aegis of National Accreditation Board of Testing and Calibration Laboratory (NABL) since 2001 in multiple disciplines v.i.z. Electro – Technical, Thermal and Mechanical sub grouped as Dimension, Pressure, Force, Mass – Volume & Viscosity, Electro Meter Corporation had widened its scope of service in the territorial jurisdiction of Bangladesh considering the market potential. However the market survey had made us aware that the clients are of the requirement to get the portable instruments from the same body from whom they undertake the calibration service.

Clients priority had always remained the primary area of prominence of Electro Meter Corporation thereby leading into an idea of becoming a One Stop solution in the field of Supply and Calibration of instruments.

Our Scope of supply includes different measuring electrical and electronic parameters, from simple Voltmeters & Ammeters to Oscilloscopes and Spectrum Analyzers to High Voltage Testing equipment.

Our range of instruments offers you highest accuracy, ruggedness and utmost reliability, having met and exceeded the toughest quality standards set by the industry as well as users.

When dealing with us, be rest assured of high quality, prompt deliveries and quick response for all after sales services. Our associates constantly check and test the instruments prior to sale and delivery. Almost all products are available in ready stock and off-the-shelf, hence enabling prompt & timely deliveries. High technology service center facilities comprising of an experienced team of technicians, equipped with high quality test equipment and tools and warranties against manufacturing defects are available to back-up the quality & excellence promised when you invest in any product of Electro Meter Bangladesh Ltd.

## Acidity Testing Kit

| |
|---|
| Used to measure Acidity content of Transformer Oil |
| Portable equipment with test tubes to conduct the tests |
| A set of chemical reactions need to be conducted to evaluate acidity of transformer oil |
| Test Set consists of Ethyl Alcohol, Sodium Carbonate Solution, Universal Indicator, Test Tubes, Graduated Droppler |
| Color chart calibrated with neutralization number values and instruction manual is also provided. |

## Analogue Clamp Meter

| | |
|---|---|
| It confirms to the prescriptions of the European directive on low voltage 73/23/EEC and to EMC directive 89/336/EEC, amended by 93/68/EEC. | |
| Confirms to CAT II 600V, IEC1010-1 (EN-61010-1). | |
| Clamp Jaw Dia | 34mm |
| DC Voltage | 0 - 75V |
| Accuracy | ± 3% |
| AC Voltage | 0 - 150/300/750V |
| Accuracy | ± 3% |
| AC Current | 0 - 6/15/60/150/600V |
| Accuracy | ± 3% |
| Resistance | 0 - 2k/200k.Ohms |
| Accuracy | ± 3% |
| Temperature | -20°C to 150°C |
| Accuracy | ± 3% of arc |
| Pointer Lock Facility | |

## A.C. High Voltage Test Set

| | |
|---|---|
| These sets are suitable for applied voltage tests on transformer, motors, gloves bushing and many other electrical equipment and insulating material and components. | |
| The sets are capable of giving continuously variable control of high Voltage from zero to maximum rated output voltage and of maintaining pressure at the desired level with supplying the charging current necessary for the capacity of the equipment under test | |
| Input: | 230V or 415V AC 50Hz (Any One) (generally 230V is provided for sets up to 15KVA Capacity) |
| Output: | Continuously variable between 0 to maximum rated output voltage |
| Max Capacity: | AC HV unit are spread over a wide voltage and current range from 2kV to 200kV having capacity from several VA to several hundred KVA. |
| However the kV rating might go beyond 200kV if required by the customer | |
| Duty Cycle: | Unless specified the test sets are made for intermittent duty cycle of 10 mins ON and 15 mins OFF |
| AC and DC combined high voltage sets are also available | |

| | |
|---|---|
| It confirms to the prescriptions of the European directiveon low voltage 73/23/EEC and to EMC directive 89/336/EEC, amended by 93/68/EEC. | |
| Clamp Jaw Dia | 34mm |
| DC Voltage | 0 - 60V |
| Accuracy | ± 3% |
| AC Voltage | 0 - 150/300/600V |
| Accuracy | ± 3% |
| AC Current | 0 - 6/15/60/150/300V |
| Accuracy | ± 3% |
| Resistance | 0 - 2k/200k^ |
| Accuracy | ± 4% |
| Temperature up to 150°C /300°F | |
| Accuracy | 5°C |
| Confirms to IEC-61010, CAT II 600V | |
| Fuse Protection | |
| Pointer Lock Facility | |

| | |
|---|---|
| Easy Range Selection by Rotary Scale System | |
| Pointer lock knob | |
| Automatic Zero Ohm Adjustment | |
| Jaw Clamp Dia | 60mm |
| AC Voltage | 0 - 150/300/600V |
| Accuracy | ± 3% F.S. |
| AC Current | 0 - 15/60/150/300/600/1200A |
| Accuracy | ± 3% F.S. |
| Resistance | 0 - 20k.Ohms |
| Accuracy | ± 3% F.S. |
| Fuse Protection | |

## Analogue Multimeter

| Hand Held Multimeter | |
|---|---|
| DC Voltage | 0 - 2.5/10/50/250/1000V |
| Accuracy | ±5% |
| AC Voltage | 0 - 10/50/250/1000V |
| Accuracy | ±5% |
| Resistance | 0 - 20k/2M∧ |
| Accuracy | ±5% |
| Battery Test | 1.5/9V |
| Accuracy | ±5% |
| Decibel | -22 to 20 dB |
| Confirms to IEC 61010, CAT II 300V | |

| Confirms to CAT II 1000V, CAT III 500V | |
|---|---|
| DC Voltage | 0 – 0.05/0.5/2.5/10/50/250/ 1000V |
| Accuracy | 3% |
| AC Voltage | 0 – 0.05/0.5/2.5/10/50/250/ 1000V |
| Accuracy | ±4% |
| DC Current | 0– 0.01/0.05/0.25/2.5/25mA/ 250mA/10A |
| Accuracy | ±3% |
| AC Current | 0 – 0.01/0.05/0.25/2.5/25mA/ 250mA/10A |
| Accuracy | ±4% |
| Resistance | 0 – 2k/20k/200k/2M/20M/200M /2000M∧ |
| Accuracy | ±2% |
| Audible Continuity Test | |
| Fuse Protection | |

| Hand Held Multimeter | |
|---|---|
| DC Voltage | 0 - 2.5/10/50/250/1000V |
| Accuracy | ±3% |
| AC Voltage | 0 - 10/50/250/1000V |
| Accuracy | ±4% |
| DC Current | 0 - 2.5m/25m/250m/10A |
| Accuracy | ±3% |
| Resistance | 0 - 2k/20k/2M/20M∧ |
| Accuracy | ±3% |
| dB Test | -10dB to +62dB |
| Transistor Polarity Test and Audible Continuity Test | |
| Fuse Protection | |
| Confirms to IEC 61010, CAT III 600V | |

| Confirms to EN 61010 – 1:2001, CE 1010-1, EN61010 NF-C 42020 VDE 0411 | |
|---|---|
| Confirms EMC Directive EN 61326-1 | |
| DC Voltage | 0 – 2.5/10/25/100/250/500/1000 /2500V |
| Accuracy | ±1.5% |
| AC Voltage | 0 – 2.5/10/25/100/250/500/1000 /2500V |
| Accuracy | ±2.5% |
| DC Current | 0 – 1m/10m/50m/100m/250m/ 1000m/10A |
| Accuracy | ±1.5% |
| AC Current | 0 – 100m/1000m/2500m/10A |
| Accuracy | ±2.5% |
| Resistance | 0 – 2/20/200/2k∧ |
| Accuracy | ±10% |
| Audible Continuity Test | |

## Battery Impedance Tester

| Confirms to IEC61010-1, CAT II 1,000V, CAT III 500V to ground potential | |
|---|---|
| DC Voltage | 0-0.1/0.5/2.5/10/50/250/1000V |
| Accuracy | ±3% |
| AC Voltage | 0-0.1/0.5/2.5/10/50/250/1000V |
| Accuracy | ±4% |
| DC Current | 0-0.05/0.25/2.5/25/250mA/10A |
| Accuracy | ±3% |
| AC Current | 0-0.05/0.25/2.5/25/250mA/10A |
| Accuracy | ±4% |
| Resistance | 0 – 2k/20k/200k/2M/20M∧ |
| Accuracy | ±3% |
| Battery Test | 1.5V/9V |
| Transistor Test, Diode Test and Continuity Test Facility | |

| Measuring Internal Impedance and Open Circuit Voltage of the secondary battery including Nickel-metal hydride battery (NiMH), Nickel-Cadmium Battery (NiCd) |
|---|
| AC Four terminal method to measure internal impedance by eliminating lead impedance and contact impedance to get the accurate results |
| Multi display LCD to display internal impedance, voltage and clock |
| 99Sets of composite comparator function |
| Pin type leads, for easy contact of battery electrode. |
| Large Backlit LCD Display |
| Data Logging up to 9999 sets |
| Resistance Measurement from 10μ∧ to 40∧ |
| Voltage Measurement from 1mV to 40V |
| Temperature Measurement from -20 to 60°C |
| DC Current Measurement from 0.6A to 700A DC |
| PC Interface cable and software |

## Bench Type Multimeter

| | |
|---|---|
| High Performance Bench type T-RMS Digital Multimeter | |
| AC Frequency response : 50kHz | |
| Display | 4-1/2 Digits 19999 Counts Backlit LCD |
| DC Voltage | 0 - 200m/2V/20V/200V/1000V |
| Accuracy | ±0.05% |
| AC Voltage | 0 - 200m/2V/20V/200V/750V |
| Accuracy | ±0.8% |

| | |
|---|---|
| DC Current | 0 - 20m/200m/ 2/20A |
| Accuracy | ±0.35% |
| AC Current | 0 - 200m/2/20A |
| Accuracy | ±0.8% |
| Resistance | 0 - 200/2k/20k/200k/2M/20M∧ |
| Accuracy | ±0.1% |
| Capacitance | 0 - 20n /2u /200uF |
| Accuracy | ±3.5% |
| Frequency | 0 - 20k /200kHz |
| Accuracy | ±1.0% |
| Transistor Test, Diode Test and Audible continuity test facility | |

| | |
|---|---|
| Most Stable bench top 6-1/2 Digits Digital Multimeter | |
| Has high accuracy and has USB PC Interface facility. | |
| High sampling rate and data rate of 2000 readings/Sec | |
| AC measurement range 3Hz to 300kHz | |
| Two Wire and Four Wire Resistance measurement | |
| Period, Temperature measurements | |
| It can store up to 2000 readings in memory | |
| 11 measurements and 8 math function | |
| Display | unique 5x7 dot matrix VFD<br>Dual displays with three color annunciators |
| DC Voltage | 0 - 100mV/1/10/100/1000V |
| Accuracy | ±0.003% |
| AC Voltage | 0 - 100m/1/10/100/750V |
| Accuracy | ±0.04% |
| DC Current | 10m/100m/1/3A |
| Accuracy | ±0.005% |

| | |
|---|---|
| AC Current | 0 - 1 /3A |
| Accuracy | ± 0.3% |
| Resistance | 0 - 100/1k/10k/100k/1M/10M/<br>100M∧ |
| Accuracy | ±0.003% |
| Diode and continuity test | |
| Limit, Ratio MX+B, %, dBm, dB, Min /Max, Null functions | |
| Trigger function available | |
| Thermal measurement function supports two types of measurements, Thermocouple and RTDs, For thermocouples E, J, K, N, R, S and T types can be used. | |
| Multi-Point Scan option can be used that supports upto 10 Channels (optional) | |
| Free MatLab and Labview applications that allows user to do a variety of tasks. Also features the PT-Tool that can acquire data directly from the measurement into MS Word and Excel even without MS Word or Excel. User can chose PT-Link which is a stand-alone application. | |

| | |
|---|---|
| Most Cost Effective 6-1/2 Digit Multimeter | |
| Dual Displays & Dual Measurements | |
| Wide Range Current Measurement | |
| Basic DC Voltage Accuracy of 0.009% | |
| Free Software PT-TOOL (SCPI Commands) & PT-LINK | |
| DC Voltage | 0 – 100m/1/10/100/1000V |
| Accuracy | ±0.009% |
| AC Voltage | 0 – 100m/1V/10/100/1000V |
| Accuracy | ±0.12% |
| DC Current | 0 – 10m/100m/1/3A/10A |
| Accuracy | ±0.05% |
| AC Current | 0 – 1/3A/10A |

| | |
|---|---|
| Accuracy | ±0.2% |
| Frequency | up to 300kHz |
| Accuracy | ±0.03% |
| Capacitance | 0 – 1n 10n/100n/1u/10u/<br>100u/1000u/10000uF |
| Accuracy | ±1% |
| Thermocouple Measurement | |
| High Speed Sampling and Measurements | |
| Diode & Continuity Test Facility | |
| Confirms to EN61326. | |
| Is provided with USB Interface and optionally GPIB and RS-232 Interface can also be provided. | |

| | |
|---|---|
| Most Cost Effective 6-1/2 Digit Multimeter | |
| Dual Displays & Dual Measurements | |
| Wide Range Current Muasurement | |
| Basic DC Voltage Accuracy of 0.009% | |
| Free Software PT-TOOL (SCPI Commands) & PT-LINK | |
| DC Voltage | 0 – 100m/1/10/100/1000V |
| Accuracy | ±0.009% |
| AC Voltage | 0 – 100m/1V/10/100/1000V |
| Accuracy | ±0.12% |
| DC Current | 0 – 10m/100m/1/10A |
| Accuracy | ±0.05% |

| | |
|---|---|
| AC Current | 0 – 1 /10A |
| Accuracy | ±0.2% |
| Frequency | up to 300kHz |
| Accuracy | ±0.03% |
| Capacitance | 0 – 1n/ 0n/100n/1u/10u/100u/<br>1000u/10000uF |
| Accuracy | ±1% |
| Diode & Continuity Test Facility | |
| Confirms to EN61326. | |
| Is provided with USB Interface and optionally GPIB and RS-232 Interface can also be provided | |

## Cable Fault Locator

| |
|---|
| Used to locate short f aults, earth faults including high resistance faults and open faults in all type of LT & HT Armoured cables from 400V to 11kV & 33kV. |
| Faults could be found from a mimumum 50m to maximum 10kms. |
| Can be used for all kind of insulations. |
| It can be used for buried, underground, aerial and cable drum wound. |
| Works on potential distribution technique to locate short, earth & high resistance faults. Capacitance measurement method is adopted to locate open faults. |
| 3-1/2 Digit Large LCD Display |
| Complete with batteries, fault simulating board and leads. |

| |
|---|
| Pin Points Fault in all underground cables. |
| Useful for Power, Control & Telecom Cables |
| Maximum Cable Length 5kms |
| Accuracy : ±5% |
| Faults located can be Medium/High Resistance Faults, Open Circuit and Short Circuit faults |
| Two Techniques used |
| Potential Comparison Technique |
| Capacitance Comparison Technique |
| Fault Resistance : Upto 1 M∧ measure by 1KV Megger |


| |
|---|
| Consists of a transmitter and a receiver |
| Used to detect or trace conductors and to find short faults in them. |
| The signal generated by the transmitter is made into a modulated current, generating an electromagnetic field around a conductor. This electro magnetic field induces a voltage within the receiving coil. The induced voltage is amplified, decoded and converted to the original signal by the receiver and finally displayed on screen. |
| It is used for finding conductors in walls, conductor interruptions, short-circuits in conductors |
| Conductor tracing in the soil |
| Detecting fuses and assigning current circuits |
| Tracing sockets and distribution sockets having accidentally been covered by plastering |
| Detecting interruptions and short-circuits in floor heating |
| Tracing metallic water and heating pipes |
| All application are (both, voltage-free and live) are performed without using any additional instruments |
| Transmitter display indicates the transmission level, the transmission code, as well as the foreign voltage |
| Receiver display indicates the reception level, the transmission code, as well as the mains voltage detection |
| Automatic and manual sensitivity adjustment |
| Acoustic reception signal may be switched off |
| Auto-Power-Off function |
| Backlight Display |
| Additional lighting function when working under bad lighting conditions |
| Additional transmitters are available to extend or distinguish several signals |


## Calibrators

| | |
|---|---|
| Portable Type | |
| 12 Fixed range Selectable Outputs | |
| Outputs available at | -200, -100, -50, 000, 50,100, 150, 200, 300, 400,500, 600°C |
| Accuracy | ±0.05% Ohm of FSR |
| Compensation | Long Wire Compensation of 100m. sensor cable |


| | |
|---|---|
| Portable instrument for calibrating process devices and measuring process signals. | |
| Display | 3-1/2 Digits Backlit LCD |
| Data Hold Function | |
| Overload and Low Battery Condition Indicator | |
| Sources Current and DC mV | |
| Measures Current and Power | |
| Current Source Range | 0 – 19.99 /24mA |
| Accuracy | ±0.25% |
| DC Milli Volt Source Range | -199.9 to +199.9mV |
| Accuracy | ±0.25% |
| DC Current Measurement Range | 0 - 19.99 /24mA |
| Accuracy | ±0.25% |

| Hand Held, 9V Battery Operated | |
|---|---|
| 4-1/2 Digits 19999 Counts LCD Display | |
| **Sources** | |
| DC Voltage | 0 - 199.99mV |
| Accuracy | ±0.05% |
| DC Current | 0 - 19.999mA |
| Accuracy | ±0.05% |
| **Measures** | |
| DC Voltage | 0 - 199.99mV |
| Accuracy | ±0.05% |
| DC Current | 0 - 19.999mA |
| Accuracy | ±0.05% |
| Output Adjustable | by 10 Turn POT for COARSE and FINE |


| Bench top Portable, Mains Operated | |
|---|---|
| Auxiliary Power | 230V Single Phase AC 50Hz Supply |
| Display | 4-1/2 Digits 19999 Counts LCD |
| **Sources** | |
| DC Voltage | 0 - 199.99m/1.9999/ 19.999V |
| Accuracy | ±0.05% ± 2 Counts |
| DC Current | 0 - 199.99u/1.9999m/ 19.999mA |
| Accuracy | ±0.05% ± 2 Counts |
| **Measures** | |
| DC Voltage | 0 - 199.99m/1.9999/19.999V |
| Accuracy | ±0.05% ± 2 Counts |
| DC Current | 0 - 199.99u/1.9999m/ 19.999mA |
| Accuracy | ±0.05% ± 2 Counts |
| Output Adjustable | by 10 Turn POT for COARSE and FINE |


| Provides analogue output for eight types of thermocouples (R, S, K, E, J, T, B, N), seven types of thermo-resistance (Cu 10 / Cu 50 / PT-10 / PT-100 / PT-200 / PT-500 / PT-1000), DC Voltage and resistance | |
|---|---|
| °C and °F scales selectable | |
| Suitable for field use | |
| High Accuracy of 0.05% | |
| Display | 5 Digits LCD |
| **Outputs provided** | |
| Voltage Range | -10mV to 110mV/-1000 to 1100mV |
| Resolution | 0.01mV /0.1mV Accuracy : ±0.05% |
| Resistance Range | 0 to 400/4000 Ohms |
| Resolution | 0.1/1∧ Accuracy : ±0.05% |

| R type Thermocouple | -40 to 1760°C |
|---|---|
| Resolution | 1°C Accuracy : ±0.05% |
| S type Thermocouple | -20 to 1760°C |
| Resolution | 1°C Accuracy : ±0.05% |
| B type thermocouple | 400 to 1800°C |
| Resolution | 1°C Accuracy : ±0.05% |
| E type thermocouple | -200 to 1000°C |
| Resolution | 0.1°C Accuracy : ±0.05% |
| K type thermocouple | -200 to 1370°C |
| Resolution | 0.1°C Accuracy : ±0.05% |
| J type thermocouple | -200 to 1200°C |
| Resolution | 0.1°C Accuracy : ±0.05% |
| T type thermocouple | -200 to 400°C |
| Resolution | 0.1°C Accuracy : ±0.05% |
| N type thermocouple | -200 to 1300°C |
| Resolution | 0.1°C Accuracy : ±0.05% |
| PT-10 385 Sensor | -200 to 850°C |
| Resolution | 0.1°C Accuracy : ±0.05% |
| PT-100 385 Sensor | -200 to 850°C |
| Resolution | 0.1°C Accuracy : ±0.05% |
| PT-200 385 Sensor | -200 to 630°C |
| Resolution | 0.1°C Accuracy : ±0.05% |
| PT-500 385 Sensor | -200 to 630°C |
| Resolution | 0.1°C Accuracy : ±0.05% |
| PT-1000 385 Sensor | -200 to 630°C |
| Resolution | 0.1°C Accuracy : ±0.05% |
| Cu10 Sensor | -10 to 250°C |
| Resolution | 0.1°C Accuracy : ±0.05% |
| Cu50 Sensor | -50 to 150°C |
| Resolution | 0.1°C Accuracy : ±0.05% |


| Simulates thermo- resistance and resistance output | |
|---|---|
| Measures thermo-resistance and resistance | |
| °C and °F scales selectable | |
| Suitable for field use | |
| High Accuracy of 0.05% | |
| Display | 5 Digits LCD |
| **Outputs provided** | |
| Resistance Range | 0 to 400 /4000 Ohms |
| Resolution | 0.1 /1 Ohms Accuracy: ±0.05% |
| PT-10 385 Sensor | -200 to 850°C |
| Resolution | 0.1°C Accuracy: ±0.05% |
| PT-100 385 Sensor | -200 to 850°C |
| Resolution | 0.1°C Accuracy: ±0.05% |
| PT-200 385 Sensor | -200 to 630°C |
| Resolution | 0.1°C Accuracy: ±0.05% |
| PT-500 385 Sensor | -200 to 630°C |
| Resolution | 0.1°C Accuracy: ±0.05% |
| PT-1000 385 Sensor | -200 to 630°C |
| Resolution | 0.1°C Accuracy: ±0.05% |
| Cu10 Sensor | -10 to 250°C |
| Resolution | 0.1°C Accuracy: ±0.05% |
| Cu50 Sensor | -50 to 150°C |
| Resolution | 0.1°C Accuracy: ±0.05% |

| Measuring Range | |
|---|---|
| Resistance Range | 0 to 500 /5000∧ |
| Resolution | 0.1 /1 Ohms Accuracy : ±0.05% |
| PT-10 385 Sensor | -200 to 850°C |
| Resolution | 0.1°C Accuracy : ±0.05% |
| PT-100 385 Sensor | -200 to 850°C |
| Resolution | 0.1°C Accuracy : ±0.05% |
| PT-200 385 Sensor | -200 to 630°C |
| Resolution | 0.1°C Accuracy : ±0.05% |
| PT-500 385 Sensor | -200 to 630°C |
| Resolution | 0.1°C Accuracy : ±0.05% |
| PT-1000 385 Sensor | -200 to 630°C |
| Resolution | 0.1°C Accuracy : ±0.05% |
| Cu10 Sensor | -10 to 250°C |
| Resolution | 0.1°C Accuracy : ±0.05% |
| Cu50 Sensor | -50 to 150°C |
| Resolution | 0.1°C Accuracy : ±0.05% |

| |
|---|
| Provides output and measures DC Voltage and Loop Current |
| Simulates the output of analogue transducer |
| Can supply 24V DC Loop Power |
| Can produce fast and slow auto inclined wave output for 4 - 20mA current |
| Auto Power Off can be set by operator |
| Can test switch mode and take operation in step fromzero to full scale |
| Displaying can be done both in mA and % |
| Suitable for field use |
| High Accuracy of 0.05% |

| | |
|---|---|
| Display | 5 Digits LCD |
| **Outputs provided** | |
| DC Current | 0 - 22mA |
| Resolution | 0.001mA, Accuracy : ±0.05% |
| Analogue Transducer | 0 to -22mA |
| Resolution | 0.001mA, Accuracy : ±0.05% |
| Loop Power | 24V |
| Accuracy | ±10% |
| **Measuring Range** | |
| Voltage | 0 to 28V |
| Resolution | 1mV, Accuracy : ±0.05% |
| Current | -1.00 to 20mA |
| Resolution | 0.001mA, Accuracy : ±0.05% |
| Loop Current | 0 to 24mA |
| Resolution | 0.001mA, Accuracy : ±0.05% |


| |
|---|
| High Accuracy of 0.02% for source, 6 digits display for source. |
| Source: DC voltage, DC current, resistance, simulating transmitter, temperature(thermocouple/resistance temperature detector), frequency, pulse, contact. |
| Provides 25% step or 100% step DC current output manually or automatically. |

| |
|---|
| TC source terminals and built-in lead connector of same temperature (RJ compensation with auto-reference joint point); the unit can be converted between °C and °F. |
| Outside place temperature detector with high accuracy of ±2 °C. |
| Big LCD can display the TC/RTD value and voltage/ resistance value, mA value and mA% value corresponding simultaneously. |
| Carefully designed the key layout, each pare of increase/decrease key correspond with the set value on the LCD. |
| It can be calibrated without open the cover of the calibrator. |
| White backlight with auto turn off |

| **Sources** | |
|---|---|
| DC Voltage | 0 – 100m /1000m /10V |
| Resolution | 1uV, Accuracy : ±0.02% |
| DC Current | 0 – 20mA |
| Resolution | 1uA, Accuracy : ±0.02% |
| Resistance | 0 – 400 /4k /40k∧ |
| Resolution | 0.01∧, Accuracy : ±0.02% |
| R type Thermocouple | -0 to 1767°C |
| Resolution | 1°C Accuracy : ±1.2°C |
| S type Thermocouple | 0 to 1767°C |
| Resolution | 1°C Accuracy : ±1.2°C |
| B type thermocouple | 600 to 1820°C |
| Resolution | 1°C Accuracy : ±1.1°C |
| E type thermocouple | -200 to 1000°C |
| Resolution | 0.1°C Accuracy : ±0.04°C |
| K type thermocouple | -200 to 1372°C |
| Resolution | 0.1°C Accuracy : ±0.5°C |
| J type thermocouple | -200 to 1200°C |
| Resolution | 0.1°C Accuracy : ±0.5°C |
| T type thermocouple | -250 to 400°C |
| Resolution | 0.1°C Accuracy : ±0.6°C |
| N type thermocouple | -200 to 1300°C |
| Resolution | 0.1°C Accuracy : ±0.08°C |
| L type thermocouple | -200 to 900°C |
| Resolution | 0.1°C Accuracy : ±0.5°C |
| U type thermocouple | -200 to 600°C |
| Resolution | 0.1°C Accuracy : ±0.5°C |
| PT-100 type sensor | -200 to 800°C |
| Resolution | 0.1°C Accuracy : ±0.3°C |
| PT-200 type sensor | -200 to 630°C |
| Resolution | 0.1°C Accuracy : ±0.8°C |
| PT-500 type sensor | -200 to 630°C |
| Resolution | 0.1°C Accuracy : ±0.4°C |
| PT-1000 type sensor | -200 to 630°C |
| Resolution | 0.1°C Accuracy : ±0.2°C |
| Cu10 type sensor | -100 to 260°C |
| Resolution | 0.1°C Accuracy: ±1.8°C |
| Cu50 type sensor | -50 to 150°C |
| Resolution | 0.1°C Accuracy: ±0.6°C |
| Frequency | 1Hz to 110Hz |
| Resolution | 0.01Hz Accuracy: ± 2 counts |
| Pulse | 1 to 100 /1k /10kHz |
| Resolution | 1 Cycle Accuracy: ± 2 counts |
| Switch | 1Hz to 100Hz /1kHz / 10kHz/100kHz |
| Resolution | 0.01Hz Accuracy: ± 2 counts |

| | |
|---|---|
| Hand Held Battery Operated instrument for high accuracy measurements and sourcing | |
| Measure | DC-Voltage, ohm, Tc, RTD, continuity; |
| Source | DC-Voltage, ohm, Tc, RTD; |
| 2-wire,3-wire,4-wire connection method for ohm and RTD measurement. | |
| Big LCD can display the TC/RTD measurement value and voltage/resistance corresponding simultaneously. | |
| TC measurement/source terminals and built-in lead connector of same temperature (RJ compensation with auto-reference joint point) | |
| Room temperature monitoring under any operation | |
| Measurement wave-filter function | |
| Measurement manual-holding function | |
| 6 Digits Backlit LCD Dual Display | |
| **Measures** | |
| DC Voltage | 0 – 50mV/500mV |
| Resolution | 1uV Accuracy : ±0.02% |
| Resistance | 0 – 500/5k∧ |
| Resolution | 0.01∧ Accuracy : ±0.05% |
| R type Thermocouple | -0 to 1767°C |
| Resolution | 1°C Accuracy : ±1.5°C |
| S type Thermocouple | 0 to 1767°C |
| Resolution | 1°C Accuracy : ±1.5°C |
| K type thermocouple | -100 to 1372°C |
| Resolution | 0.1°C Accuracy : ±0.8°C |
| E type thermocouple | -200 to 850°C |
| Resolution | 0.1°C Accuracy : ±0.9°C |
| J type thermocouple | -60 to 1120°C |
| Resolution | 0.1°C Accuracy : ±0.7°C |
| T type thermocouple | -100 to 400°C |
| Resolution | 0.1°C Accuracy : ±0.7°C |
| N type thermocouple | -200 to 1300°C |
| Resolution | 0.1°C Accuracy : ±0.9°C |
| B type thermocouple | 600 to 1820°C |

| | |
|---|---|
| Resolution | 1°C Accuracy : ±1.4°C |
| L type thermocouple | -60 to 900°C |
| Resolution | 0.1°C Accuracy : ±0.5°C |
| U type thermocouple | -100 to 600°C |
| Resolution | 0.1°C Accuracy : ±0.5°C |
| PT-100 type sensor | -200 to 800°C |
| Resolution | 0.1°C Accuracy : ±0.5°C |
| PT-1000 type sensor | -200 to 630°C |
| Resolution | 0.1°C Accuracy : ±0.8°C |
| PT-200 type sensor | -200 to 630°C |
| Resolution | 0.1°C Accuracy : ±0.8°C |
| PT-500 type sensor | -200 to 630°C |
| Resolution | 0.1°C Accuracy : ±0.8°C |
| Cu10 type sensor | -100 to 260°C |
| Resolution | 0.1°C Accuracy : ±1.8°C |
| Cu50 type sensor | -50 to 150°C |
| Resolution | 0.1°C Accuracy : ±0.7°C |
| Continuity | 0 – 500∧ |
| Resolution | 0.01∧ |
| **Sources** | |
| DC Voltage | 0 – 100mV /1000mV |
| Resolution | 1uV Accuracy : ±0.02% |
| Resistance | 0 – 400 /4k∧ |
| Resolution | 0.01∧ Accuracy: ±0.02% |
| R type Thermocouple | -0 to 1767°C |
| Resolution | 1°C Accuracy : ±1.2°C |
| S type Thermocouple | 0 to 1767°C |
| Resolution | 1°C Accuracy : ±1.2°C |
| K type thermocouple | -200 to 1372°C |
| Resolution | 0.1°C Accuracy : ±0.5°C |
| E type thermocouple | -200 to 1000°C |
| Resolution | 0.1°C Accuracy : ±0.4°C |
| J type thermocouple | -200 to 1200°C |
| Resolution | 0.1°C Accuracy : ±0.5°C |
| T type thermocouple | -250 to 400°C |
| Resolution | 0.1°C Accuracy : ±0.6°C |
| N type thermocouple | -200 to 1300°C |
| Resolution | 0.1°C Accuracy : ±0.7°C |
| B type thermocouple | 600 to 1820°C |

| | |
|---|---|
| Resolution | 1°C Accuracy : ±1.1°C |
| L type thermocouple | -200 to 900°C |
| Resolution | 0.1°C Accuracy : ±0.5°C |
| U type thermocouple | -200 to 600°C |
| Resolution | 0.1°C Accuracy : ±0.5°C |
| PT-100 type sensor | -200 to 800°C |
| Resolution | 0.1°C Accuracy : ±0.3°C |
| PT-1000 type sensor | -200 to 630°C |
| Resolution | 0.1°C Accuracy : ±0.2°C |
| PT-200 type sensor | -200 to 630°C |
| Resolution | 0.1°C Accuracy: ±0.8°C |
| PT-500 type sensor | -200 to 630°C |
| Resolution | 0.1°C Accuracy : ±0.4°C |
| Cu10 type sensor | -100 to 260°C |
| Resolution | 0.1°C Accuracy : ±1.8°C |
| Cu50 type sensor | -50 to 150°C |
| Resolution | 0.1°C Accuracy : ±0.6°C |


| | |
|---|---|
| Provides DC Voltage, DC current, simulation transmitter, Frequency & Pulse outputs | |
| Measures DC Voltage, DC current, Frequency and Continuity | |
| Measuring pressure, Calibrating pressure-voltage transmitter, Calibrating 2wire pressure transmitter, Calibrating pressure switch | |
| Most Precise & useful tool in field calibration | |
| Auto Power Off facility | |
| Auto Power Off disable function | |
| Manual Step Source and Auto-Step and Sweeping-Step Source | |
| Measurement /source mA% Display | |
| Measurement Manual-Holding Function | |
| Measurement wave-filter function | |
| Pressure Source Auto-Holding Function | |
| Manual Step Source and Auto-Step and Sweeping-Step Source | |
| High Accuracy of 0.05% | |
| Display | 6 Digits LCD |

| | |
|---|---|
| **Outputs** | |
| Voltage | 0 to 10V |
| Resolution | 10uV Accuracy : ±0.02% |
| Current | 0 to 20mA |
| Resolution | 1uA Accuracy : ±0.02% |
| Frequency | 0 – 100/1k/10kHz |
| Loop Power | 24 V Accuracy : ±10% |
| Pressure Output | using various Pressure Modules |
| **Measuring Range** | |
| Voltage | 0 to 50 V |
| Resolution | 10uV Accuracy : ±0.02% |
| Current | 0 to 50mA |
| Resolution | 1uA Accuracy : ±0.02% |
| Frequency | 0 – 500/5k/50kHz |
| Resolution | 0.01Hz Accuracy : ±2Digits |
| Continuity Test | |

| |
|---|
| Measures and Sources various parameters |
| Display: 50000 Counts Dual, Backlit Display |
| Source and Measured values can be seen on the same screen together |
| Source and Measurement can be done at the same time |
| Confirms to IEC 61010 |
| Data Hold Function to freeze the displayed data |

**Measures**

| | |
|---|---|
| DC Voltage | 0 - 50mV/500mV/ 5V/50V DC |
| Accuracy | ±0.02% |
| DC Current | 0 - 50mA |
| Accuracy | ±0.02% |
| Resistance | 0 - 500/5k∧ |
| Accuracy | ±0.02% |
| Frequency | 0 - 500/5k/50kHz |
| Accuracy | ±2digits |
| Temperature for PT-100 Sensor | -200°C to 800°C |
| Accuracy | ±0.5°C |
| Temperature for PT-200 Sensor | -200°C to 630°C |
| Accuracy | ±0.8°C |
| Temperature for PT-500 Sensor | -200°C to 630°C |
| Accuracy | ±0.4°C |
| Temperature for PT-1000 Sensor | -200°C to 630°C |
| Accuracy | ±0.3°C |
| Temperature for Cu-10 Sensor | -100°C to 260°C |
| Accuracy | ±1.8°C |
| Temperature for Cu-50 Sensor | -50°C to 150°C |
| Accuracy | ±0.7°C |
| Temperature for R type Sensor | -40°C to 1767°C |
| Accuracy | ±1.5°C |
| Temperature for S type Sensor | 0°C to 1767°C |
| Accuracy | ±1.5°C |
| Temperature for B type Sensor | 600°C to 1820°C |
| Accuracy | ±1.4°C |
| Temperature for E type Sensor | -50°C to 1000°C |
| Accuracy | ±0. 9°C |
| Temperature for K type Sensor | -100°C to 1372°C |
| Accuracy | ±0.8°C |
| Temperature for J type Sensor | -60°C to 1200°C |
| Accracy | ±0. 7°C |
| Temperature forT type Sensor | -100°C to 400°C |
| Accuracy | ±0. 7°C |
| Temperature for N type Sensor | -200°C to 1300°C |
| Accuracy | ±0.9°C |
| Continuity Test Facility | |

**Sources**

| | |
|---|---|
| DC Voltage | 0 - 100m/1/10V |
| Accuracy | ±0.02% |
| DC Current | 0 - 20mA |
| Accuracy | ±0.02% |
| Analog Transducer | -20mA |
| Accuracy | ±0.02% |
| Resistance | 0 - 400/4k/40k∧ |
| Accuracy | ±0.02% |
| Frequency | 0 - 100/1k/10k/ 100kHz |
| Accuracy | ±2Counts |
| Pulse | 0 - 100/1k/10kHz |
| Accuracy | ±2 Counts |
| Loop Power | 24V |
| Accuracy | ±10% |
| Switch | 0 - 100/1k/10k/ 100kHz |
| Accuracy | ±2% |
| Temperature for Pt-100 Sensor | -200°C to 800°C |
| Accuracy | ±0.3°C |
| Temperature for Pt-200 Sensor | -200°C to 630°C |
| Accuracy | ±0.2°C |
| Temperature for Pt-500 Sensor | -200°C to 630°C |
| Accuracy | ±0.2°C |
| Temperature for Pt-1000 Sensor | -200°C to 630°C |
| Accuracy | ±0.22°C |
| Temperature for Cu-10 Sensor | -100°C to 260°C |
| Accuracy | ±2°C |
| Temperature for Cu-50 Sensor | -50°C to 150°C |
| Accuracy | ±0.5°C |
| Temperature for R type Sensor | -10°C to 1767°C |
| Accuracy | ±1.2°C |
| Temperature for S type Sensor | 0°C to 1767°C |
| Accuracy | ±1.2°C |
| Temperature for B type Sensor | 600°C to 1820°C |
| Accuracy | ±1.1°C |
| Temperature for E type Sensor | -200°C to 1000°C |
| Accuracy | ±0.4°C |
| Temperature for K type Sensor | -200°C to 1372°C |
| Accuracy | ±0.5°C |
| Temperature for J type Sensor | -200°C to 1200°C |
| Accuracy | ±0.5°C |
| Temperature for T type Sensor | -250°C to 400°C |
| Accuracy | ±0.6°C |
| Temperature for N type Sensor | -200°C to 1300°C |
| Accuracy | ±0.7°C |
| Pressure (Source + Measurement) | 2.49kPa ~ 70MPa |
| (Depending on the pressure module used) | |


## Carbon Mono Oxide Meter

The Carbon Monoxide Meter detects the presence of carbon monoxide (CO) and measures concentrations between 1-1000 parts per million (PPM).

The Meter indicates the presence of carbon monoxidein two ways:

1. By a reading on the LCD in PPM.
2. By a beeper tone.
3. The beeper functions much like clicking of a Geigercounter: Above 200 PPM, the beeper sounds continuously with the concentration of CO.
   From 35 PPM to 200 PPM, the beeper sounds discontinuously with the Concentration of CO.

| | |
|---|---|
| Measuring range | 0 to 1000 PPM |
| Measurement Resolution | 1PPM |
| Accuracy | ±5% or ±10 PPM |
| Auto power off | |
| Warm up period | <2 seconds |
| Sensor type | Stabilized electrochemical Gas-specific (CO) |
| Max recording, Recall of stored data, | |
| Measuring Time Mode | |

Detects the presence of carbon monoxide (CO) and measures concentrations between 1-1000 parts per million (PPM)

The Meter indicates the presence of carbon monoxidein two ways:
1. By a reading on the LCD in PPM.
2. By a beeper tone.
3. Above 200 PPM, the beeper sounds continuously with the concentration of CO.
4. From 35 PPM to 200 PPM, the beeper sounds discontinuously with the concentration of CO.

| Max Hold and Data Hold Facility | |
|---|---|
| Display | Backlit LCD |
| Range | 0 to 1000PPM |
| Resolution | 1PPM |
| Accuracy | ±5% or ±10 PPM |
| Warm up period | <2 seconds |
| Auto Power Off | |


Clamp Earth Resistance Tester can measure the ground fault which can not be measured by traditional method, can apply in the applications where traditional methods are unworkable.

The latest updated series Clamp Earth Resistance Testers have better performance: Boot up instantly, avoid boot up errors; More reliable battery cover, convenient to change battery; Wider range, larger memory; Optional RS232 interface, available to transfer data to PC and generate report files, easy to analyse or backup data.

| | |
|---|---|
| Clamp Jaw | 32 x 65 mm |
| Display | 4 digit Backlit LCD |
| Resistance Range | 0.01 to 1200 Ohms |
| Resolution | 0.01 Ohms |
| Storage of Measured Data | 99 Data |
| Setting of Resistance Alarm Critical Value | 1 – 199 Ohms |
| Data Hold, Auto Power Off | |

## Clamp On Ground Resistance Tester

Widely applied in ground resistance measurement, loop resistance measurement in fields such as electric power, telecommunications, meteorology, oil field, architecture and industrial electrical equipment .

When measuring ground system with loop, there is no need to disconnect the ground wire without auxiliary electrode, which means safer and faster.

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| | |
|---|---|
| Clamp Jaw | 32mm |
| Display | 4 digit Backlit LCD |
| Resistance Range | 0.01 to 1200 Ohms |
| Resolution | 0.01 Ohms |
| Storage of Measured Data | 99 Data |
| Setting of Resistance Alarm Critical | Value 1 – 199 Ohms |
| Data Hold, Auto Power Off | |

Widely applied in ground resistance measurement, loop resistance measurement in fields such as electric power, telecommunications, meteorology, oil field, architecture and industrial electrical equipment .

When measuring ground system with loop, there is no need to disconnect the ground wire without auxiliary electrode, which means safer and faster.

Widely applied in ground resistance measurement, loop resistance measurement in fields such as electric power, telecommunications, meteorology, oil field, architecture and industrial electrical equipment.

Can measure the leakage current of ground wire. Clamp Earth Resistance Tester measures the integrated value of ground resistance and resistance lead.

When measuring ground system with loop, there is no need to disconnect the ground wire without auxiliary electrode, which means safer and faster.

Clamp Earth Resistance Tester can measure the ground fault which can not be measured by traditional method, can apply in the applications where traditional methods are unworkable.

The latest updated series Clamp Earth Resistance Testers have better performance: Boot up instantly, avoid boot up errors; More reliable battery cover, convenient to change battery; Wider range, larger memory; Optional RS232 interface, available to transfer data to PC and generate report files, easy to analyse or backup data.

| | |
|---|---|
| Clamp Jaw | 32 x 65 mm |
| Display | 4 digit Backlit LCD |
| Resistance Range | 0.01 to 1200 Ohms |
| Resolution | 0.01 Ohms |
| Current range | 0.00-20.00A |
| Resolution | 0.05mA |
| Storage of Measured Data | 99 Data |
| Setting of Resistance Alarm Critical Value | 1 – 199 Ohms |
| Setting Range of Current Alarm Critical Value | 1-499mA |
| Data Hold, Auto Power Off | |

Widely applied in ground resistance measurement, loop resistance measurement in fields such as electric power, telecommunications, meteorology, oil field, architecture and industrial electrical equipment.

| |
|---|
| Can measure the leakage current of ground wire. Clamp Earth Resistance Tester measures the integrated value of ground resistance and resistance lead. |
| When measuring ground system with loop, there is no need to disconnect the ground wire without auxiliary electrode, which means safer and faster. |
| Clamp Earth Resistance Tester can measure the ground fault which can not be measured by traditional method, can apply in the applications where traditional methods are unworkable. |
| The latest updated series Clamp Earth Resistance Testers have better performance: Boot up instantly, avoid boot up errors; More reliable battery cover, convenient to change battery; Wider range, larger memory; Optional RS232 interface, available to transfer data to PC and generate report files, easy to analyse or backup data. |

| | |
|---|---|
| Clamp Jaw | 32mm |
| Display | 4 digit Backlit LCD |
| Resistance Range | 0.01 to 1200∧ |
| Resolution | 0.01 Ohms |
| Current range | 0.00-20.00A |
| Resolution | 0.05mA |
| Storage of Measured Data | 99 Data |
| Setting of Resistance Alarm Critical Value | 1 – 199∧ |
| Setting Range of Current Alarm Critical Value | 1-499mA |
| Data Hold, Auto Power Off | |

## Coatmeter

| |
|---|
| Measures coating Thickness on both Ferrous and Non Ferrous materials with interface cable & S/W |
| The CTG-01 coating thickness gauges work either on the magnetic induction or on the eddy current principle, depending on the type of probe used. |
| You can select the type of probe via MENU system or it will work automatically. |
| Operating with MENU Easily. |
| Zero Calibrating Easily. |
| Low Battery , error indication. |
| USB Interface for PC analysis software. |
| Disable Auto Power Off function via MENU setting. |


| | |
|---|---|
| Measuring Ranges | |
| Ferrous | 0 ~ 1250um<br>0 ~ 49.21mils |
| Non Ferrous | 0 ~ 1250um<br>0 ~ 49.21mils |
| Guaranteed Tolerance | |
| Ferrous | ±3% ±1um<br>±3% ± 0.039 mils |
| Non Ferrous | ±3% ±1.5um<br>±3% ± 0.059mils |
| Precision | |
| Ferrous | 0.1um /0.001 mils |
| Non Ferrous | 0.1um /0.001 mils |
| Minimum Curvature radius | |
| Ferrous : 1.5mm /Non-Ferrous : 3mm | |
| Diameter of Minimum Area | |
| Ferrous :7 mm /Non ferrous : 5 mm | |
| Basic critical thickness | |
| Ferrous : 0.5mm /Non Ferrous : 0.3mm | |

## Combustible Gas Leakage Detector

| |
|---|
| 16” inch gooseneck detector makes it possible to reach “hard reached” areas |
| Highly sensitive and reliable |
| Easy to use: One hand operation with thumb controlled tick adjust knob. Tick accelerates when sensor tip approaches leak. |
| Use in contaminated environments: Eliminates background gas concentration with fully adjustable tick rate. |
| Pinpoints small leaks: Detects all combustible gas leaks even tiny leaks. |
| Pump Driven field calibrate-able Range: 10ppm |
| Sensor Type: Solid State |
| Alarm: Visible & Audible at 10% LEL for Methane. Can be calibrated for other concentrations or gases |
| Warm up - Approx 1min. |
| Response time < 2 secs |
| Battery Operated. |
| Gas Detected: Natural Gas, Propane, Butane, Methane, Acetone, Alcohol, Ammonia, Steam, Carbon Monoxide (not to quantify), Gasoline, Jet Fuel, Hydrogen Sulfide, Smoke, Industrial Solvents, Lacquer Thinner, Naphtha |


## Current Transducer

| | |
|---|---|
| Input and outputs are Isolated | |
| Type | DIN RAIL Mounting |
| AC Input | 0-5A (Direct),0 - 1A (Direct), CTR/5A, CTR/1A for Higher Currents |
| DC Output | Current(mA) : 4-20Voltage (V) : 0-10 (Other Voltage and current outputs available on request) |
| Single Output is standard Dual Output available on request | |
| Auxiliary | 110/230V AC ± 10% (Any One) |
| DC Auxiliary Power Supply available on request | |
| Accuracy | Standard : ± 0.5% of Span Optional On Request |

## Data Logger for Sound Level

| | |
|---|---|
| This unit confirms to the IEC61672-1 CLASS2 for Sound Level Meter. | |
| NORM (Normal) & PEAK mode | |
| Data manage : STORE, REAL TIME | |
| Over range indication | |
| A & C Weighting | |
| FAST & SLOW response | |
| Software Calibration | |
| Manual & Automatic Start Modes | |
| Measurement Range | 30dB to 130dB |
| Accuracy | ±1.4dB |
| Frequency Range | 31.5Hz to 8kHz |
| Data Memory | 129920 Data |
| Sampling Rate | Settable from 1 Sec. to 24 Hours. |
| With USB PC Interface Cable and Software | |

## Data Logger for Temperature & Humidity

| | |
|---|---|
| Designed with high accuracy sensor for temperature & humidity | |
| Fast Response and Highly Stable | |
| Used for Monitoring and collecting data of environmental temperature and humidity | |
| Memory for 32700 values | |
| LCD to show logging information easily; | |
| Freely selectable measurement cycle from 1 sec. to 24h; | |
| Download collected data through PC's USB; | |
| Alarm display if user-defined maximum/minimum values are exceeded; | |
| Analysis software used to view graph for logging data | |
| Relative Humidity Range | 0 to 100% RH |
| Accuracy | ±3.0% |
| Temperature | -40 to 70°C |
| Accuracy | ±1°C |
| Sampling Rate | Settable from 1 Sec. to 24 Hours. |
| With USB PC Interface Cable and Software | |


## Data Logger for Voltage and Current

| | |
|---|---|
| Single Channel Input | |
| Measures and records virtual value of Voltage and Current of AC Signal | |
| Stores 100,096 Data | |
| AC Voltage Range | 10V ~ 600V (40Hz ~ 1kHz) |
| Accuracy | ± 2% |
| AC Current Range | 10A ~ 200A (50 /60Hz) |
| Accuracy | ± 2% |
| Wave Record Function | Records the wave which exceeds the set Voltage /Current. |
| Real Time Display, Calibrated with software | |
| Max /Min Reading Hold | |
| Peak Hold Function | |
| USB PC Interface with software | |


## DC High Voltage Test Set

| |
|---|
| These are suitable for testing electrical insulation of condensers, plastic line tanks, electric cables, PIV of diodes and many other items and particularly motors, transformers, switch gears etc and particularly applicable for testing electrical equipment at site where portability is vital |
| Generally available in one unit and sets for higher output voltage are available in two units. |
| However, in case if required, sets in more than two units can also be manufactured. |
| Input: 230V, 50Hz AC (Sets with other voltage and frequency can also be made) |

| |
|---|
| Output: Continuously variable from zero to max. rated output voltage |
| Sets with 3kV to 300kV output voltage can be made with current capacities of 100mA and 500mA |
| Max. apacity: Available in different standard current capacities of 3mA, 5mA, 10mA, 20mA, 30mA, 50mA, 100mA and 300mA can be made |
| AC and DC combined high voltage sets are also available |
| Complete with power chord, instruction manual and test certificate |

## DC Regulated Power Supply

| | |
|---|---|
| Utilizes SMT Technology | |
| Green LED Display | |
| Voltage and Current displayed together | |
| Multi-turn variable device to provide high precision voltage setting. | |
| Auto-tracking on PARALLEL and SERIAL working condition | |
| Presetting the voltage and current | |
| DC Output Switch | |
| Extended output terminals | |
| Continuous working under full load condition | |
| Constant Current and Constant Voltage Protection | |
| Short Circuit protection | |
| Input | 220 /110V ±10% 50~60Hz |
| Variable Output Voltage | 0 - 30V DC |
| Variable Output Current | 0 - 2A |

| | |
|---|---|
| Utilizes SMT Technology | |
| Green LED Display | |
| Voltage and Current displayed together | |
| Multi-turn variable device to provide high precision voltage setting. | |
| Auto-tracking on PARALLEL and SERIAL working condition | |
| Presetting the voltage and current | |
| DC Output Switch | |
| Extended output terminals | |
| Continuous working under full load condition | |
| Constant Current and Constant Voltage Protection | |
| Short Circuit protection | |
| Input | 220 /110V ±10% 50~60Hz |
| Variable Output Voltage | 0 - 30V DC |
| Variable Output Current | 0 - 5A |

| |
|---|
| Utilizes SMT Technology |
| Green LED Display |
| Voltage and Current displayed together |
| Multi-turn variable device to provide high precision voltage setting. |
| Auto-tracking on PARALLEL and SERIAL working condition |

| | |
|---|---|
| Presetting the voltage and current | |
| DC Output Switch | |
| Extended output terminals | |
| Continuous working under full load condition | |
| Constant Current and Constant Voltage Protection | |
| Short Circuit protection | |
| Input | 220 /110V ±10% 50~60Hz |
| Variable Output Voltage | 0 - 60V DC |
| Variable Output Current | 0 - 2A |

| | |
|---|---|
| Utilizes SMT Technology | |
| Red LED Display | |
| Voltage and Current displayed together | |
| Voltage and Current adjustment by COARSE and FINEControls | |
| Multi-turn variable device to provide high precision-voltage setting. | |
| Continuous working under full load condition | |
| Constant Current and Constant Voltage Protection | |
| Short Circuit protection | |
| Input | 220 /110V ±10% 50~60Hz |
| Variable Output Voltage | 0 - 30V DC |
| Variable Output Current | 0 - 30A |
| Working hours | 8 hours continuous working |

| | |
|---|---|
| Utilizes SMT Technology | |
| Attractive Digital Display showing Voltage and Current | |
| High Precision Voltage Regulation | |
| Progressive Current Regulation | |
| Dual Terminal System: Safety test style or expanded screw terminals. | |
| Overload and Short Circuit Protection | |
| Rugged Reinforced Metal Frame Construction. | |
| Output Polarity | Positive and Negative |
| Input | 230V AC 50Hz |
| Variable Output Voltage | 0 – 60V DC |
| Variable Output Current | 0 – 5A DC |

| | |
|---|---|
| Utilizes SMT Technology | |
| Attractive Digital Display showing Voltage and Current | |
| High Precision Voltage Regulation | |
| Progressive Current Regulation | |
| Dual Terminal System: Safety test style or expanded screw terminals. | |
| Overload and Short Circuit Protection | |
| Rugged Reinforced Metal Frame Construction. | |
| Output Polarity | Positive and Negative |
| Input | 230V AC 50Hz |
| Variable Output Voltage | 0 – 60V DC |
| Variable Output Current | 0 – 10A DC |

| | |
|---|---|
| Utilizes SMT Technology | |
| Attractive Digital Display showing Voltage and Current | |
| High Precision Voltage Regulation | |
| Progressive Current Regulation | |
| Dual Terminal System: Safety test style or expanded screw terminals. | |
| Overload and Short Circuit Protection | |
| Rugged Reinforced Metal Frame Construction. | |
| Output Polarity | Positive and Negative |
| Input | 230V AC 50Hz |
| Variable Output Voltage | 0 – 30V DC |
| Variable Output Current | 0 – 10A DC |

| | |
|---|---|
| Utilizes SMT Technology | |
| Red LED Display | |
| Voltage and Current displayed together | |
| Voltage and Current adjustment by COARSE and FINE Controls | |
| Multi-turn variable device to provide high precision voltage setting. | |
| Continuous working under full load condition | |
| Constant Current and Constant Voltage Protection | |
| Short Circuit protection | |
| Input | 220 /110V ±10% 50~60Hz |
| Variable Output Voltage | 0 - 60V DC |
| Variable Output Current | 0 - 20A |
| Working hours | 8 hours continuous working |

| | |
|---|---|
| Utilizes SMT Technology | |
| Attractive Digital Display showing Voltage and Current | |
| High Precision Voltage Regulation | |
| Progressive Current Regulation | |
| Dual Terminal System: Safety test style or expanded screw terminals. | |
| Overload and Short Circuit Protection | |
| Rugged Reinforced Metal Frame Construction. | |
| Output Polarity | Positive and Negative |
| Input | 230V AC 50Hz |
| Variable Output Voltage | 0 – 30V DC |
| Variable Output Current | 0 – 20A DC |

| | |
|---|---|
| Utilizes SMT Technology | |
| Red LED Display | |
| Voltage and Current displayed together | |
| Voltage and Current adjustment by COARSE and FINE Controls | |
| Multi-turn variable device to provide high precision voltage setting. | |
| Continuous working under full load condition | |
| Constant Current and Constant Voltage Protection | |
| Short Circuit protection | |
| Input | 220 /110V ±10% 50~60Hz |
| Variable Output Voltage | 0 - 60V DC |
| Variable Output Current | 0 - 30A |
| Working hours | 8 hours continuous working |

| | |
|---|---|
| Dual Channel output | |
| Dual Red LED Display | |
| Voltage and Current displayed together | |
| Multi-turn variable device to provide high precision voltage setting. | |
| Continuous working under full load condition | |
| Constant Current and Constant Voltage Protection | |
| Short Circuit protection | |
| Input | 220V ±10% 50~60Hz |
| Variable Output Voltage | 2 x 0 - 30V DC |
| Variable Output Current | 2 x 0 - 2A |

| | |
|---|---|
| Dual Channel output | |
| Dual Red LED Display | |
| Voltage and Current displayed together | |
| Multi-turn variable device to provide high precision voltage setting. | |
| Continuous working under full load condition | |
| Constant Current and Constant Voltage Protection | |
| Short Circuit protection | |
| Input | 220V ±10% 50~60Hz |
| Variable Output Voltage | 2 x 0 - 30V DC |
| Variable Output Current | 2 x 0 - 5A |

| | |
|---|---|
| Dual Channel Variable output | |
| Single Channel Fixed output | |
| Dual Red LED Display | |
| Voltage and Current displayed together | |
| Multi-turn variable device to provide high precision voltage setting. | |
| Continuous working under full load condition | |
| Constant Current and Constant Voltage Protection | |
| Short Circuit protection | |
| Input | 220V ±10% 50~60Hz |
| Variable Output Voltage | 2 x 0 - 30V DC |
| Variable Output Current | 2 x 0 - 2A |
| Fixed Output | 5V /3A |

| | |
|---|---|
| Dual Channel Variable output | |
| Single Channel Fixed output | |
| Dual Red LED Display | |
| Voltage and Current displayed together | |
| Multi-turn variable device to provide high precision voltage setting. | |
| Continuous working under full load condition | |
| Constant Current and Constant Voltage Protection | |
| Short Circuit protection | |
| Input | 220V ±10% 50~60Hz |
| Variable Output Voltage | 2 x 0 - 30V DC |
| Variable Output Current | 2 x 0 - 5A |
| Fixed Output | 5V /3A |

## DDS Function Generator

| |
|---|
| Bandwidth : 5MHz |
| Applies DDS Technology, provides dual channel output, phase adjustments. |
| 125MSa/Sec sampling rate, 14 bit vertical resolution, 16kpts wavelength |
| 5 types of standard waveforms, built-in 48 types of arbitrary waveforms |
| Abundant modulation functions, sweep-frequency output, burst output |
| Built-in high precision frequency counter, frequency up to 200MHz |
| Standard interfaces: USB Device, USB Host |
| USB-GPIB adapter optional |
| Seamlessly interconnect with Digital Storage Oscilloscope and support remote command control |
| Maximum Output Frequency : 5MHz |
| Optional USB-GPIB Interface |

| |
|---|
| Bandwidth : 10MHz |
| Applies DDS Technology, provides dual channel output, phase adjustments. |
| 125MSa/Sec sampling rate, 14 bit vertical resolution, 16kpts wavelength |
| 5 types of standard waveforms, built-in 48 types of arbitrary waveforms |
| Abundant modulation functions, sweep-frequency output, burst output |
| Built-in high precision frequency counter, frequency up to 200MHz |
| Standard interfaces: USB Device, USB Host |
| USB-GPIB adapter optional |
| Seamlessly interconnect with Digital Storage Oscilloscope and support remote command control |
| Maximum Output Frequency : 10MHz |
| Optional USB-GPIB Interface |

| |
|---|
| Bandwidth : 25MHz |
| Applies DDS Technology, provides dual channel output, phase adjustments. |
| 125MSa/Sec sampling rate, 14 bit vertical resolution, 16kpts wavelength |
| 5 types of standard waveforms, built-in 48 types of arbitrary waveforms |
| Abundant modulation functions, sweep-frequency output, burst output |
| Built-in high precision frequency counter, frequency up to 200MHz |
| Standard interfaces: USB Device, USB Host |
| USB-GPIB adapter optional |
| Seamlessly interconnect with Digital Storage Oscilloscope and support remote command control |
| Maximum Output Frequency : 25MHz |
| Optional USB-GPIB Interface |

| |
|---|
| Bandwidth : 50MHz |
| Applies DDS Technology, provides dual channel output, phase adjustments. |
| 125MSa/Sec sampling rate, 14 bit vertical resolution, 16kpts wavelength |
| 5 types of standard waveforms, built-in 48 types of arbitrary waveforms |
| Abundant modulation functions, sweep-frequency output, burst output |
| Built-in high precision frequency counter, frequency up to 200MHz |
| Standard interfaces: USB Device, USB Host |
| USB-GPIB adapter optional |
| Seamlessly interconnect with Digital Storage Oscilloscope and support remote command control |
| Maximum Output Frequency : 50MHz |
| Optional USB-GPIB Interface |

## Digital AC/DC Clamp Meter

| | |
|---|---|
| Data Hold Facility | |
| Built-in Non Contact Voltage Detector | |
| Fully Protected up to 600V DC/AC RMS in all ranges including Frequency, Resistance, Capacitance and Continuity test | |
| Low Battery and Over Range Indication | |
| Display | 3-3/4 Digits 3999 Counts Backlit LCD |
| Confirms to CAT III 600V | |
| Clamp Jaw Dia | 30mm |
| DC Voltage | 0 - 400m/4/40/400/600V. |
| Accuracy | ±0.8% |
| AC Voltage | 0 - 400m/4/40/400/600V. |
| Accuracy | ±1.5% |
| DC Current | 0 - 40/400A. |
| Accuracy | ±2.5% |
| AC Current | 0 - 40/400A. |
| Accuracy | ±2.5% |
| Resistance | 0 -400/4k/40k/400k/4M/40M∧ |
| Accuracy | ±1.0% |
| Temperature | -20°C to 760°C /-4°F to 1400°F |
| Accuracy | ±3.0% |
| Frequency | 10 ~ 10KHz |
| Accuracy | ±1.5% |
| Capacitance | 0 - 40n/400n/4u/40u/100uF |
| Accuracy | ±3.0% |
| Diode Test and Continuity Test | |
| Confirms to CE, IEC 61010, CAT-III 600V | |

| | |
|---|---|
| Data Hold Facility | |
| Built-in Non Contact Voltage Detector | |
| Low Battery and Over Range Indication | |
| Display | 3-3/4 Digits 3999 Counts Backlit LCD |
| Confirms to CAT III 600V | |
| Clamp Jaw Dia | 30mm |
| DC Voltage | 0 - 400m/4/40/400/600V. |
| Accuracy | ±0.8% |
| AC Voltage | 0 - 400m/4/40/400/600V. |
| Accuracy | ±1.5% |
| DC Current | 0 - 40/400A. |
| Accuracy | ±2.5% |
| AC Current | 0 - 40/400A. |
| Accuracy | ±2.5% |
| Resistance | 0 - 400/4k/40k/400k/4M/40M∧ |
| Accuracy | ±1.0% |
| Temperature | -20°C to 760°C /-4°F to 1400°F |
| Accuracy | ±3.0% |
| Frequency | 10 ~ 10KHz |
| Accuracy | ±1.5% |
| Capacitance | 0 - 40n/400n/4u/40u/100uF |
| Accuracy | ±3.0% |
| Diode Test and Continuity Test | |
| Confirms to CE, IEC 61010, CAT-III 600V | |

| | |
|---|---|
| Auto-ranging AC/DC Clamp Meter | |
| Display: 3-3/4 Digits 3999 Counts | |
| Clamp Jaw Dia: 30mm /41mm x 30mm (Bus Bar) | |
| Low Battery and Over range indication | |
| Data Hold function | |
| DC Voltage | 0 – 400mV/4/40/400/1000V |
| Accuracy | ±1% |
| AC Voltage | 0 – 4/40/400/750V |
| Accuracy | ±1.5% |
| DC Current | 0 – 40/400/1000A |
| Accuracy | ±2.5% |
| AC Current | 0 – 40/400/1000A |
| Accuracy | ±3.0% |

| | |
|---|---|
| Resistance | 0 – 400/4k/40k/400k/4M/40M∧ |
| Accuracy | ±2.5% |
| Frequency | Upto 10MHz |
| Accuracy | ±0.5% |
| Duty Cycle | 0.1 to 99.9% |
| Accuracy: | ±1% |
| Diode and Continuity Test Facility | |

| | |
|---|---|
| Clamp Jaw Dia: 51mm | |
| Display | 3-3/4 Digits 3999 Counts LCD |
| Low Battery and Over-range indication | |
| Data Hold Function | |
| DC Voltage | 0 – 1000V |
| Accuracy | ±0.8% |
| AC Voltage | 0 – 750V |
| Accuracy | ±1.5% |
| DC Current | 0 – 400/1000A |
| Accuracy | ±2.5% |
| AC Current | 0 – 400/1000A |
| Accuracy | ±2.5% |
| Resistance | 0 – 400/4k/40k/400k/4M∧ |
| Accuracy | ±1.2% |
| Frequency | 0 – 10/100/1k/10k/100k/1MHz |
| Accuracy | ±0.1% |
| Duty Cycle | 10 to 90% |
| Accuracy | ±0.5% |
| Diode and Continuity Test Facility | |


| | |
|---|---|
| Auto-ranging AC/DC Clamp meter | |
| Auto Power Off | |
| Peak Hold and Data Hold facility | |
| Display | 3-3/4 Digits 3999 Counts Backlit LCD with analogue bargraph |
| Frequency Measurement while measuring current through clamp | |
| Relative Measurement facility | |
| DC Voltage | 0 - 400m/4/40/400/1000V. |
| Accuracy | ±1.0% |
| AC Voltage | 0 - 400m/4/40/400/1000V. |
| Accuracy | ±1.2% |
| DC Current | 0 - 400/1000A. |
| Accuracy | ±2.0% |
| AC Current | 0 - 400/1000A. |
| Accuracy | ±2.0% |
| Resistance | 0 - 400/4k/40k/400k/4M/40M∧ |
| Accuracy | ±1.0% |
| Temperature | -20°C to 1000°C /-4°F to 1832°F |
| Accuracy | ±3.0% |
| Frequency | 10 - 100KHz |
| Accuracy | ±1.0% |
| Capacitance | 0 - 4n/40n/400n/4u/40u/400uF |
| Accuracy | ±3.0% |
| Duty Cycle | 0.5 - 99.9% |
| Accuracy | ±1.2% |
| Diode Test and Continuity Test | |
| Confirms to CE, IEC 61010, CAT-III 1000V, CAT-IV 600V | |


| | |
|---|---|
| Data Hold Facility | |
| Double molded body with rubber coating | |
| Clamp Jaw Size | 30mm |
| Display | 3-3/4 Digital 3999 Counts Backlit LCD |
| DC Voltage | 0 - 400m/4/40/400/600V. |
| Accuracy | ±0.8% |
| AC Voltage | 0 - 400m/4/40/400/600V. |
| Accuracy | ±1.0% |
| DC Current | 0 - 40/400/1000A. |
| Accuracy | ±2.5% |
| AC Current | 0 - 40/400/1000A. |
| Accuracy | ±3.0% |
| Resistance | 0 - 400/4k/40k/400k/4M/40M∧ |
| Accuracy | ±1.0% |
| Temperature | -20°C to 1000°C /-4°F to 1832°F |
| Accuracy | ±3.0% |
| Frequency | 0 - 5/50/500/5K/50K/100KHz |
| Accuracy | ±1.2% |
| Capacitance | 0 - 40n/400n/4u/40u/100uF |
| Accuracy | ±3.0% |
| Duty Cycle | 0.5 - 99.9% |
| Accuracy | ±1.2% |
| Diode Test and Continuity Test | |
| Confirms to CE, IEC 61010, CAT-III 600V | |


| | |
|---|---|
| T-RMS Clamp Meter | |
| Auto Power Off | |
| Data Hold Facility | |
| Clamp Jaw Size | 30mm |
| Display | 3-3/4 Digital 3999 Counts Backlit LCD |
| DC Voltage | 0 - 400m/4/40/400/600V. |
| Accuracy | ±0.8% |
| AC Voltage | 0 - 400m/4/40/400/600V T-RMS. |
| Accuracy | ±1.0% |
| AC Current | 0 - 40/400/1000A T-RMS. |
| Accuracy | ±2.8% |
| DC Current | 0 - 40/400/1000A |
| Accuracy | ±2.8% |
| Resistance | 0 - 400/4k/40k/400k/4M/40M∧ |
| Accuracy | ±1.0% |
| Temperature | -40°C to 1000°C /-40°F to 1832°F |
| Accuracy | ±2.5% |
| Frequency | 0 - 4KHz |
| Accuracy | ±1.5% |
| Capacitance | 0 - 4n/40n/400n/4u/40u/400u/4m/40mF |
| Accuracy | ±3.0% |
| Diode Test and Continuity Test | |
| Confirms to CE, IEC 61010, CAT-III 600V | |

| | |
|---|---|
| Auto-ranging DC/AC T-RMS Clamp meter | |
| Auto Power Off | |
| Peak Hold and Data Hold facility | |
| Display | 3-3/4 Digits 3999 Counts Backlit LCD with analogue bargraph |
| Frequency Measurement while measuring current through clamp | |
| Relative Measurement facility | |
| DC Voltage | 0 - 400m/4/40/400/1000V. |
| Accuracy | ±1.0% |
| AC Voltage | 0 - 400m/4/40/400/1000V T-RMS |
| Accuracy | ±1.2% |
| DC Current | 0 - 400/1200A. |
| Accuracy | ±2.0% |
| AC Current | 0 - 400/1200A. T-RMS |
| Accuracy | ±2.0% |
| Resistance | 0 - 400/4k/40k/400k/4M/40M^ |
| Accuracy | ±1.0% |
| Temperature | -20°C to 1000°C /-4°F to 1832°F |
| Accuracy | ±3.0% |
| Frequency | 10 - 100KHz |
| Accuracy | ±1.0% |
| Capacitance | 0 - 4n/40n/400n/4u/40u/400uF |
| Accuracy | ±3.0% |
| Duty Cycle | 0.5 - 99.9% |
| Accuracy | ±1.2% |
| Diode Test and Continuity Test | |
| Confirms to CE, IEC 61010, CAT-III 1000V, CAT-IV 600V | |
| 600V DC/AC Protection on all ranges | |


| | |
|---|---|
| Auto-ranging DC/AC T-RMS Clamp meter | |
| Auto Power Off | |
| Peak Hold and Data Hold facility | |
| Display | 3-3/4 Digits 3999 Counts Backlit LCD with analogue bargraph |
| Frequency Measurement while measuring current | |
| Relative Measurement facility | |
| DC Voltage | 0 - 400m/4/40/400/1000V. |
| Accuracy | ±1.0% |
| AC Voltage | 0 - 400m/4/40/400/1000V T-RMS |
| Accuracy | ±1.2% |
| DC Current | 0 - 400/2000A. |
| Accuracy | ±2.0% |
| AC Current | 0 - 400/2000A T-RMS |
| Accuracy | ±2.0% |
| Resistance | 0 - 400/4k/40k/400k/4M/40M^ |
| Accuracy | ±1.0% |
| Temperature | -20°C to 1000°C/-4°F to 1832°F |
| Accuracy | ±3.0% |
| Frequency | 10 - 100KHz |
| Accuracy | ±1.0% |
| Capacitance | 0 - 4n/40n/400n/4u/40u/400uF |
| Accuracy | ±3.0% |
| Duty Cycle | 0.5 - 99.9% |
| Accuracy | ±1.2% |
| Diode Test and Continuity Test | |
| Confirms to CE, IEC 61010, CAT-III 1000V, CAT-IV 600V | |
| 600V DC/AC Protection on all ranges | |


| | |
|---|---|
| Auto-ranging AC/DC Clamp meter | |
| Auto Power Off | |
| Peak Hold and Data Hold facility | |
| Display | 3-3/4 Digits 3999 Counts Backlit LCD with analogue bargraph |
| Frequency Measurement while measuring current through clamp | |
| Relative Measurement facility | |
| DC Voltage | 0 - 400m/4/40/400/1000V. |
| Accuracy | ±1.0% |
| AC Voltage | 0 - 400m/4/40/400/1000V. |
| Accuracy | ±1.2% |
| DC Current | 0 - 400/2000A. |
| Accuracy | ±2.0% |
| AC Current | 0 - 400/2000A. |
| Accuracy | ±2.0% |
| Resistance | 0 - 400/4k/40k/400k/4M/40M^ |
| Accuracy | ±1.0% |
| Temperature | -20°C to 1000°C/-4°F to 1832°F |
| Accuracy | ±3.0% |
| Frequency | 10 - 100KHz |
| Accuracy | ±1.0% |
| Capacitance | 0 - 4n/40n/400n/4u/40u/400uF |
| Accuracy | ±3.0% |
| Duty Cycle | 0.5 - 99.9% |
| Accuracy | ±1.2% |
| Diode Test and Continuity Test | |
| Confirms to CE, IEC 61010, CAT-III 1000V, CAT-IV 600V | |
| 600V DC/AC Protection on all ranges | |


| | |
|---|---|
| **For the First Time in INDIA, 40,000 Counts, 4-3/4 Digits LCD Dual Display with Analogue Bargraph** | |
| Provides higher Resolution and Accuracy | |
| Fully protected DC/AC T-RMS Clamp Meter | |
| 500V AC/DC Protection on all ranges | |
| 1000V AC/DC Protection in Voltage range. | |
| Clamp Jaw Dia 52 mm | |
| Low Battery and Over-range indication | |
| Data Hold & Peak Hold | |
| In-Rush Current Measurement | |
| Max / Min Record Facility | |
| Double Moulded Injection Body | |
| Auto Power Off | |
| In-Built Non Contact Voltage Detection | |
| DC Voltage | 0 - 400m/4/40/400/1000V. |
| Accuracy | ±0.1% |
| AC Voltage | 0 - 400m/4/40/400/750V T-RMS. |
| Accuracy | ±0.8% |
| AC Current | 0 - 400/1500A T-RMS. |
| Accuracy | ±2.5% |
| DC Current | 0 - 400/1500A |
| Accuracy | ±3% |
| Resistance | 0 - 400/4k/40k/400k/4M/40M^ |
| Accuracy | ±0.5% |
| Temperature | -100°C to 1000°C /-148°F to 1832°F |

| | |
|---|---|
| Accuracy | ±1.0% |
| Frequency | 0 – 40/400/4k/40k/4M/40MHz |
| Accuracy | ±0.3% |
| Duty Cycle | 10.0 to 95.0% |
| Accuracy | ±0.5% |
| Capacitance | 0 - 400n/4000n/40u/400u/4m/40mF |
| Accuracy | ±3.0% |
| Diode Test and Continuity Test | |
| Confirms to CAT-IV 600V and CAT-III 1000V | |

## Digital Ammeter

- Size - 96 x 96 mm. sq. 'or' 96 x 48 mm. sq. 'or' 72 x 72 mm. sq.
- Display: 3-1/2 Digits 'or' 4-1/2 Digits LED Display
- Ammeters for measuring AC and DC currents are available
- Range: Any Single Range up to 2000A for 3-1/2 DigitMeters and any single range up to 20,000A for 4-1/2Digits
- For currents above 20A either a CT (for AC Currentmeasurements) or Shunt (for DC Current measurements) is to be used
- Auxiliary Power Supply : 230V AC 50Hz /110V AC 50Hz/ DC Auxiliary inputs also available (any one)
- At the time of placing the order, please inform thecurrent range, Shunt or CT value, auxiliary power supply,size, 3-1/2 digits /4-1/2 digits display needs to bementioned.


## Digital Ammeter Controller

### Metravi CE-0102AC2SP

- Size - 96 x 96 mm. sq.
- Display: 3-1/2 Digits
- Would measure AC Current.
- Range: Any Single Range up to 2000A for direct inputto the meter via a CT 'or' KA rating through a CT input can bemade available.
- Can set single set point to activate a relay.
- Potential free 1 NO+ 1NC Contact
- Auxiliary Power Supply : 230V AC 50Hz /110V AC 50Hz/ DC Auxiliary inputs also available (any one)


## Digital Ammeter

- Hand Held Pocket type Anemometer
- Measures Air Speed, Air Flow (CMM/CFM)
- Low Battery and Over range indication
- Data Hold, Max /Min record function
- 4 Digits Backlit LCD Display with analogue bargraph
- Range of Wind Speed:
  0.8 to 40m/s ; accuracy ±2%
  0.8 to 77.70 knots ; accuracy ±2%
  1.4 to 144.0 km/hr ; accuracy ±2%
  1.3–131.20 ft/s ; accuracy ±2%
  0.90–90.00 mil/h ; accuracy ±2%
  78–7874 ft/min ; accuracy ±2%
- Range of Air Flow : 0 – 99990 CFM /CMM /9999 CMS


- Hand Held Pocket type Thermo-Anemometer with Dew Point, Humidity measurements
- USB PC Interface
- Measures Air Speed, Air Flow (CMM/CFM) along with its temperature. Dew point, Wet Bulb, Relative Humidity
- Low Battery and Over range indication
- Data Hold, Max /Min record function
- 4 Digits Backlit LCD Display with analogue bargraph
- Range of Wind Speed:
  0.8 to 40m/s ; accuracy ±2%
  0.8 to 77.70 ; accuracy ±2%
  1.4 to 144.0 km/hr ; accuracy ±2%
  1.3–131.20 ft/s ; accuracy ±2%
  0.90–90.00 mil/h ; accuracy ±2%
  78–7874 ft/min ; accuracy ±2%
- Range of Air Flow : 0 – 99990 CFM /CMM /9999 CMS
- Ambient Temperature, Dew Point and Wet Bulb Temperature : -10 to 60°C /14.0° to 140.0°F
- Relative Humidity : 20 to 80%RH


### Metravi AVM-04

- Displays Air Velocity and Temperature at the same time
- Highly Sensitive and accurate
- Temperature sensor built-in with anemometer fan
- Low Power Consumption
- Data /Max. /Min. Hold facility
- Auto Power Off
- Low Friction Ball bearing vane wheel for high accuracy
- Extra Large Dual LCD Display
- Range of Wind Speed :
  0.3 to 45m/s accuracy ±3%
  0.6 to 88.0 knots accuracy ±3%
  1.0 to 140.0 km/hr accuracy ±3%
  0 - 8800ft/min accuracy ±3%
- Range of Temperature : 0° to 60.0°C /32.0° to 140.0°F
- Accuracy : ± 1.5°C /± 2°F

- Displays Air Velocity and Temperature together
- Has facility to measure wind flow also
- Highly Sensitive and accurate
- Temperature sensor built-in with anemometer fan
- Low Power Consumption
- Data Hold and Max / Min record facility
- Auto Power Off
- Low Friction Ball bearing vane wheel for high accuracy
- 20 point averaging is done for airflow measurement
- Extra Large Dual LCD Display
- Range of Wind Speed :
  0.4 to 30m/s; accuracy ±3%
  0.8 to 58.0 knots; accuracy ±3%
  1.4 to 108.0 km/hr; accuracy ±3%
  80 - 5900ft/min; accuracy ±3%
  0.9 to 67 MPH accuracy ±3%
- Range of Air Flow:
  0 to 9999 CFM; accuracy ±3%
  0 to 9999 CMM; accuracy ±3%
- Range of Temperature :
  -10° to 60.0°C /14.0° to 140.0°F
- Accuracy : ± 1.5°C /± 2°F

- 20 Point average for air flow
- Super Large Backlit LCD Display
- 3% velocity accuracy via low friction 2.83" Dia ballbearing vane wheel on 3.9 ft (120cm) cable
- Range of Wind Speed:
  0.4 to 30m/s; accuracy ±3%
  0.8 to 58.0 knots; accuracy ±3%
  1.4 to 108.0 km/hr; accuracy ±3%
  80 - 5900ft/min; accuracy ±3%
  0.9 to 67 MPH; accuracy ±3%
- Range of Air Flow:
  0 to 9999 CFM; accuracy ±3%
  0 to 9999 CMM; accuracy ±3%
- Range of Temperature:
  -10° to 60.0°C/14.0° to 140.0°F
- Accuracy : ± 1.5°C /± 2°F
- Infra Red Temperature : -50 to 260°C
- Distance to sighting ratio : 8:1

- Metallic Fan Blade
- Highly sensitive and accurate instrument with easy-to-use design
- In-built type K sensor for temperature measurement
- Low Power Consumption with Low battery indication
- Data Hold and Max./Min. Hold facility
- Selectable °C /°F Scales
- Auto Power Off
- Auto Power Off Disability Function
- Range of Wind Speed : 0.6 to 30m/s; accuracy of ±3%
- 1.2 to 58.0 knots; accuracy ±3%
- 2.2 to 108.0 km/hr; accuracy ±3%
- 1.4 to 67.0 MPH; accuracy ±3%
- 119 to 5900 ft/min; accuracy ±3%
- Range of Temperature : -10° to 60.0°C /14.0° to 140.0°F
- Accuracy : ± 0.8°C /± 1.5°F
- Confirms to CE

- Displays Air Velocity and Temperature at the same time
- With In-Built Manometer to measure differential pressure
- Has facility to measure wind flow also
- Temperature sensor built-in with anemometer fan
- Low Power Consumption
- Data Hold and Max / Min record facility
- Low Friction Ball bearing vane wheel for high accuracy
- 20 point averaging is done for airflow measurement
- Extra Large Dual Backlit LCD Display
- Range of Wind Speed:
  0.4 to 30m/s; accuracy ±3%
  0.8 to 58.0 knots; accuracy ±3%
  1.4 to 108.0 km/hr; accuracy ±3%
  80 - 5900ft/min; accuracy ±3%
  0.9 to 67 MPH; accuracy ±3%
- Range of Air Flow:
  0 to 9999 CFM; accuracy ±3%
  0 to 9999 CMM; accuracy ±3%
- Range of Temperature:
  -10° to 60.0°C /14.0° to 140.0°F
- Accuracy : ± 1.5°C /± 2°F
- Unit of measurement of pressure: psi, in$H_2o$, bar, mbar, kPa, inHg , mmHg, ozin, ft$H_2o$, cm$H_2o$, kgcm
- Max / Min / Avg value recording
- Range in Manometer mode : in$H_20$ : 0 - 138.3
  psi : 0 – 5
- mbar : 0 - 344.7; kPa : 0 - 34.47
- inHg : 0 - 1.018; mmHg : 0 - 258.5
- ozin : 0 - 80; ft$H_20$ : 0 - 11.53
- cm$H_2o$ : 0 - 351.5; kgcm : 0 - 0.351
- bar : 0 - 0.344; Accuracy : ±0.3%FSO
- Repeatability : ±0.2% (Max.+/ -0.5% FSO)
- Linearity/Hysteresis : ±0.29% FSO
- Complete with carrying case, instruction manual and battery.

- Digital Anemometer with Air flow and Infra red temperature measurement facility
- Simultaneous display of Air temperature and velocity
- CFM /CMM Thermo-Anemometer + Infra Red Thermometer
- Max /Min / Avg value measurement with time stamp
- Low battery indication and Auto Power Off
- Simultaneous display of air flow or air velocity withtemperature
- Easy to set Area dimensions

| | |
|---|---|
| Measures Low velocity of Air | |
| Display: Dual LCD Display | |
| Measures Air velocity and Temperature | |
| Air Velocity is measured using Glass Bead Thermistor | |
| Temperature is measured using Precision Thermistor | |
| Data Hold to freeze displayed data | |
| MAX /MIN /AVG Recording facility | |
| USB PC Interface Facility | |
| Auto Power Off | |
| in m/s | 0.1 to 25.0 m/s |
| in km/h | 0.3 to 90.0km/h |
| in mph | 0.2 to 55.8 mile/h |
| in knots | 0.2 to 48.5 knots |
| in ft.min | 20 to 4925 ft/min |
| Accuracy | ± 5% |
| Temperature Range | 0°C to 50°C /32°F to 122°F |
| Accuracy | ± 1% |

| | |
|---|---|
| Auto and Manual Ranging | |
| Display | 3-1/2 Digits 1999 Counts Backlit LCD |
| Low Battery and Overload Indication | |
| Data Hold and Max Hold Function | |
| In Built Flash Light to access Dark Areas | |
| Clamp Jaw Dia | 30mm |
| DC Voltage | 0 – 200m/2/20/200/600V |
| Accuracy | ±0.8% |
| AC Voltage | 0 – 2/20/200/600V |
| Accuracy | ±1.0% |
| AC Current | 0 – 2/20/200/600A |
| Accuracy | ±1.5% |
| Resistance | 0 – 200/2k/20k/200k/2M/20M^ |
| Accuracy | ±1.2% |
| Diode and Continuity Test | |
| Confirms to CAT-III 600V | |

## Digital Capacitance Meter

| | |
|---|---|
| Easy to read LCD Display 3-1/2 Digits 1999 Counts | |
| High measuring Accuracy | |
| Measurements possible even under strong magnetic field | |
| LSI Circuit Provides high reliability and durability | |
| Light Weight and compact construction | |
| Range | 0 – 200p/2n/20n/200n/2u/20u/200u/ 2000u/20000uF |
| Accuracy | ± 0.5% |

| | |
|---|---|
| Auto and Manual Ranging | |
| Display | 3-1/2 Digits 1999 Counts Backlit LCD |
| Low Battery and Overload Indication | |
| Data Hold | |
| Non Contact type Voltage Detector | |
| Clamp Jaw Dia | 30mm |
| DC Voltage | 0 – 200m/2/20/200/600V |
| Accuracy | ±0.8% |
| AC Voltage | 0 – 200m/2/20/200/600V |
| Accuracy | ±1.5% |
| AC Current | 0 – 2/20/200/400A |
| Accuracy | ±2.5% |
| Resistance | 0 – 200/2k/20k/200k/2M/20M^ |
| Accuracy | ±1.0% |
| Diode and Continuity Test | |
| Confirms to CAT-III 600V | |

## Digital Clamp Meter

| | |
|---|---|
| Single Switch Operation | |
| Auto Power Off | |
| Data Hold | |
| Auto-ranging | |
| Clamp Jaw Size | 33 mm. |
| Display | 3-3/4 Digits 3999 Counts LCD |
| DC Voltage | 0 - 400m/4/40/400/600V. |
| Accuracy | ±0.8% |
| AC Voltage | 0 - 400m/4/40/400/600V. |
| Accuracy | ±1.5% |
| AC Current | 0 - 40 /400A. |
| Accuracy | ±2.5% |
| Resistance | 0 - 400/4k/40k/400k/4M/40M^ |
| Accuracy | ±1.0% |
| Temperature | -20 to 400°C |
| Accuracy | ±2.0% |
| Capacitance | 0 - 40n/400n/4u/40u/100uF |
| Accuracy | ±2.0% |
| Frequency | 10Hz ~ 5MHz |
| Accuracy | ±0.2% |
| Diode test and Continuity Test | |

| | |
|---|---|
| Auto and Manual Ranging | |
| Display | 3-3/4 Digits 3999 Counts Backlit LCD |
| Low Battery and Overload Indication | |
| Data Hold, Relative Measurement | |
| Non Contact type Voltage Detector | |
| 600V AC/DC Protection on all ranges | |
| Clamp Jaw Dia | 30mm |
| DC Voltage | 0 – 400m/4/40/400/600V |
| Accuracy | ±0.8% |
| AC Voltage | 0 – 4/40/400/600V |
| Accuracy | ±1.8% |
| AC Current | 0 – 40/400A |
| Accuracy | ±2.5% |
| Resistance | 0 – 400/4k/40k/400k/4M/40M^ |
| Accuracy | ±1.0% |
| Capacitance | 0 – 40n/400n/4u/40u/100uF |
| Accuracy | ±3% |
| Frequency | 10 – 10kHz |

| | |
|---|---|
| Accuracy | ±1.5% |
| Temperature | -20 - 760°C /-40°F to 1400°F |
| Accuracy | ±3% |
| Diode and Continuity Test | |
| Confirms to CAT-III 600V | |

| | |
|---|---|
| Peak Hold Facility | |
| Low Battery and Over Load Indication | |
| Display | 3-1/2 Digits 1999 Counts LCD |
| Clamp Jaw Dia | 40mm |
| DC Voltage | 0 - 200m/2/20/200/1000V. |
| Accuracy | ±0.8% |
| AC Voltage | 0 - 200/750V. |
| Accuracy | ±1.5% |
| AC Current | 0 - 20/200/100A. |
| Accuracy | ±3% |
| Resistance | 0 - 200/2k/20k/200k/2M/20M∧ |
| Accuracy | ±1.5% |
| Diode Test and Continuity Test | |
| Hard Carrying Case | |


| | |
|---|---|
| Auto Power Off | |
| Data Hold and Maximum Hold Facility | |
| Double molded body with rubber coating | |
| Clamp Jaw Size | 30mm |
| Display | 3-1/2 Digital 1999 Counts Backlit LCD |
| DC Voltage | 0 - 200m/2/20/200/600V. |
| Accuracy | ±0.8% |
| AC Voltage | 0 - 200m/2/20/200/600V. |
| Accuracy | ±1.5% |
| AC Current | 0 - 20/200/100A. |
| Accuracy | ±2.5% |
| Resistance | 0 - 200/2k/20k/200k/2M/20M∧ |
| Accuracy | ±1.0% |
| Diode Test and Continuity Test | |
| Confirms to CE, IEC 61010, CAT-III 600V | |
| OverloadProtection : upto 500V DC /AC RMS in all ranges | |


| | |
|---|---|
| Auto Power Off | |
| Data Hold and Relative Measurement | |
| Auto-ranging | |
| Clamp Jaw Size | 55mm |
| Display | 3-3/4 Digits 3999 Counts Backlit LCD |
| DC Voltage | 0 - 4/40/400/1000V. |
| Accuracy | ±0.5% |
| AC Voltage | 0 –400m /4/40/400/750V. |
| Accuracy | ±1.0% |
| AC Current | 0 - 400 /1000A. |
| Accuracy | ±2.5% |
| Resistance | 0 - 400/4k/40k/400k/4M/40M∧ |
| Accuracy | ±1.0% |
| Frequency | 0 -5/50/500/5k/50k/500k/5M/10MHz |


| | |
|---|---|
| Accuracy | ±1.2% |
| Duty Cycle | 0.5 to 99.0% |
| Accuracy | ±1.2% |
| Diode test and Continuity Test | |
| Confirms to CAT III 1000, CAT IV 600V IEC 1010-1 and UL 3111-IStandards | |
| Overload Protection of 1000V DC/AC RMS in Resistance,Frequency, Diode and Continuity Test Ranges. | |

| | |
|---|---|
| Auto Power Off | |
| Data Hold, Relative Measurement | |
| Auto-ranging | |
| Non Contact Voltage Detector | |
| Clamp Jaw Size | 55mm |
| Display | 3-3/4 Digits 3999 Counts Backlit LCD |
| DC Voltage | 0 –400m/4/40/400/1000V. |
| Accuracy | ±0.8% |
| AC Voltage | 0 –4/40/400/1000V. |
| Accuracy | ±1.5% |
| AC Current | 0 –40/400/1000A. |
| Accuracy | ±2.2% |
| Resistance | 0 - 400/4k/40k/400k/4M/40M∧ |
| Accuracy | ±1.0% |
| Frequency | 0 – 9.999/99.99/999.9/9.999K/99.99 K/999.9K/9.999MHz |
| Accuracy | ±1.2% |
| Duty Cycle | 0.1 to 99.9% |
| Accuracy | ±1.2% |
| Capacitance | 0 – 40n/400n/4u/40u/100uF |
| Accuracy | ±3% |
| Diode test and Continuity Test | |
| Confirms to CAT III 1000, CAT IV 600V, IEC 1010-1 and UL 3111-IStandards | |
| Overload Protection of 600V DC/AC RMS in Resistance, Frequency, Diode and Continuity Test Ranges. | |


| | |
|---|---|
| Auto Power Off | |
| Data Hold | |
| Auto-ranging | |
| Clamp Jaw Size | 57mm |
| Display | 3-3/4 Digits 3999 Counts LCD |
| DC Voltage | 0 - 4/40/400/1000V. |
| Accuracy | ±1.0% |
| AC Voltage | 0 - 4/40/400/750V. |
| Accuracy | ±1.5% |
| AC Current | 0 - 400 /2000A. |
| Accuracy | ±2.5% |
| Resistance | 0 - 400/40k/400k/4M/40M∧ |
| Accuracy | ±1.0% |
| Frequency | 0 - 99.99/999.9/9.999k/99.99k/99 9.9kHz |
| Accuracy | ±1.0% |
| Diode test and Continuity Test | |
| Confirms to CAT III 600, IEC 1010-1 and UL 3111-I Standards | |
| Overload Protection of 500V DC/AC RMS in Resistance,Frequency, Diode and Continuity Test Ranges. | |

## Digital Clamp On Power Meter

| | |
|---|---|
| T-RMS Clamp Meter | |
| Auto Power Off | |
| Data Hold & Peak Hold Facility | |
| Clamp Jaw Size | 30mm |
| Display | 3-3/4 Digital 3999 Counts Backlit LCD |
| DC Voltage | 0 - 400m/4/40/400/600V. |
| Accuracy | ±0.8% |
| AC Voltage | 0 - 400m/4/40/400/600V T-RMS. |
| Accuracy | ±1.0% |
| AC Current | 0 - 40/400/1000A T-RMS. |
| Accuracy | ±2.8% |
| Resistance | 0 - 400/4k/40k/400k/4M/40M∧ |
| Accuracy | ±1.0% |
| Temperature | -40°C to 1000°C /-40°F to 1832°F |
| Accuracy | ±2.5% |
| Frequency | 0 - 4KHz |
| Accuracy | ±1.5% |
| Capacitance | 0 -4n/40n/400n/4u/40u/400u/4m/40mF |
| Accuracy | ±3.0% |
| Diode Test and Continuity Test | |
| Confirms to CE, IEC 61010, CAT-III 600V | |

| |
|---|
| 10000 Count digital Backlit LCD display |
| Auto Backlit, Large scale display |
| VoltSenseTM (None Contact Voltage) |
| Analog Bar graph |
| True RMS reading on AC and AC+DC mode |
| Torch lightening when clamping |
| Auto AC/DC 1000 Amps capability and selection |
| Auto AC/DC 1000 Volts capability and selection |
| Auto Ohms/Continuity/Diode selection |
| Power and Power factor Measurement |
| Total Harmonics Distortion and Harmonics DC, 1 to 25 |
| Phase Rotation Indication |
| AC Current via Flexible Current Probe upto 3000A |
| 100K Ohms Resistance capability |
| Continuity Beeper |
| Frequency Counter |
| Capacitance capability |
| °C/°F Temperature Function |
| Smart Data Hold |
| Peak Hold |
| Inrush Current |
| DCA Auto-Zeroing Key |
| Min Max Hold |
| Low Pass Filter |
| Auto Power Off |
| Up to 42mm dia. (1000MCM) Conductor |
| Bus bar size 62mm x 12mm |
| 4 feet Drop Proof |
| Temp. Adaptor bead probe included |
| Deluxe Carrying Case |
| Hand Guard & Stream Line Designed |
| Convenient Battery Door |
| CAT IV 600V /CAT III 1000V Safety Standard |

| | |
|---|---|
| Auto /Manual Ranging | |
| T-RMS AC/DC Clamp Meter with Wireless PC Interface | |
| Data Hold and Peak Hold facility | |
| Auto Power Off | |
| Clamp Jaw Dia | 30mm |
| Overload and Low Battery Indication | |
| Display | 3-3/4 Digits 3999 Counts Backlit LCD |
| DC Voltage | 0 – 400m /4 /40 /400 /600V |
| Accuracy | ±0.8% |
| AC Voltage | 0 – 400m /4 /40 /400 /600V T-RMS |
| Accuracy | ±1.0% |
| DC Current | 0 – 40 /400 /1000A |
| Accuracy | ±2.8% |
| AC Voltage | 0 – 40 /400 /1000A T-RMS |
| Accuracy | ±2.8% |
| Resistance | 0 – 400 /4k /40k /400k /4M /40M∧ |
| Accuracy | ±1.0% |
| Capacitance | 0 – 4n /40n /400n /4u /40u /400u / 4m /40mF |
| Accuracy | ±3.0% |
| Frequency | 0 – 4kHz |
| Accuracy | ±1.5% |
| Temperature | -40 - 1000°C /-40°F to 1832°F |
| Accuracy | ±3.0% |
| Continuity Buzzer and Diode Test | |
| Confirms to IEC 61010 CAT III 600V /CAT II 1000V | |

| | |
|---|---|
| T-RMS AC Clamp On Power Clamp | |
| Auto Power Off | |
| Live Wire Detection | |
| Min /Max and Average Recording Facility | |
| Phase Sequence Indication | |
| Data Hold, Peak Hold & Relative Measuring Facility | |
| Electronic Overload Protection | |
| Measures KW, KVA, KVAr, PF, Energy for Single PhaseLoads | |
| Measures Active Power and Power Factor for Three-Phase Loads | |
| Clamp Jaw Size | 56mm |
| Display | 6000 Counts Backlit LCD |
| AC Voltage | 0 - 60/600V. T-RMS |
| Accuracy | ±1.0% |
| AC Current | 0 - 600/1500A. T-RMS |
| Accuracy | ±2.5% |
| Frequency | 0 - 200 /2kHz |
| Accuracy | ±1% |

| | |
|---|---|
| Active Power | 10W ~ 600kW |
| Accuracy | ±2.5% |
| Horse Power | 0.01HP ~ 600HP |
| Accuracy | ±2.5% |
| Apparent Power | 10VA ~ 600kVA |
| Accuracy | ±2.5% |
| Reactive Power | 10VAr ~ 600kVAr |
| Accuracy | ±2.5% |
| Electrical Energy | 0.01 ~ 9999kWh |
| Accuracy | ±2.5% |
| Power Factor | 0.3 ~ 1.00 |
| Accuracy | ±2.5% |
| Total Harmonic Distortion | 0.00 ~ 0.99 |
| Accuracy | ±2.5% |
| Complies with EN 61010-I (2000 Version), CAT III 600V | |

| | |
|---|---|
| Measures Power and Energy for single phase and three phase loads | |
| Auto-ranging | |
| Data Logging up to 99 Data | |
| Sleep Mode | |
| Clamp Jaw Dia | 56mm |
| Confirms to CAT III 600V, IEC 61010, CAT IV 300V | |
| Non Contact Voltage Detector | |
| Data Hold, Max /Min record | |
| USB PC Interface | |
| Display | 4 digits Triple Backlit LCD Display with analogue bargraph |
| AC Voltage | 0 – 100 /400 /750V T-RMS |
| Accuracy | ±1.2% |
| AC Current | 0 – 40 /100 /400 /1000A T-RMS |
| Accuracy | ±2.0% |
| Active Power | 0.01kW – 750kW |
| Accuracy | ±3.0% |
| Apparent Power | 0.01kVA – 750kVA |
| Accuracy | ±3.0% |
| Reactive Power | 0.01kVAR – 750kVAR |
| Accuracy | ±3.0% |
| Power Factor | 0.3 – 1 (Capacitive /Inductive) |
| Accuracy | ±4.0% |
| Phase Angle | 0°- 90° |
| Accuracy | ±2° |
| Frequency | 50Hz – 200Hz |
| Active Energy | 0.001 – 9999kWh |
| Accuracy | ±3.0% |
| Temperature | -50° - 1300°C |

| | |
|---|---|
| T-RMS Three phase and single phase Power and Harmonic Analyzer | |
| Auto Power Off | |
| Max /Min /Peak Hold facilities | |
| Overload Protection | |
| Clamp Jaw Size | 55mm |
| Display | 4 + 4 Digits 9999 Counts LCD Dual Display |
| AC Voltage | 4.0 - 600V T-RMS. |

| | |
|---|---|
| Accuracy | ±0.5% |
| AC Current | 4.0 - 1500A T-RMS. |
| Accuracy | ±0.5% |
| Resistance | 7 - 1200 ∧ |
| Accuracy | ±5 Ohms |
| Crest Factor | 1.00 - 99.99 |
| Accuracy | ±5% |
| Active Power | 10W - 9999kW |
| Accuracy | ±1% |
| Apparent Power | 10VA - 9999kVA |
| Accuracy | ±1% |
| Reactive Power | 10VAR - 9999kVAR |
| Accuracy | ±2% |
| Power Factor | 0.000 - 1.000 |
| Accuracy | ±0.04 |
| Phase Angle | -180° ~ 0° ~ +180° /0° to360° |
| Accuracy | ±1° |
| Active Energy | 0WH to 999,999KWh |
| Harmonic Analysis up to 99th Harmonic can be done | |
| THD can be done from 0 to 999.9% | |
| C.T. Ratio can be programmed from 1 to 250 | |
| H.P. Can also be measured. | |
| Diode and Continuity Test | |
| Confirms to CE, IEC 61010, CAT-III 600V | |


| | |
|---|---|
| Power Quality Analysis for Single and Balanced Three Phase System. | |
| Harmonic Analysis of Voltage and Current (1 to 50th order). | |
| True RMS measurement of V with 0.5% of reading basic accuracy. | |
| True RMS measurement of A with 1% of reading basic accuracy | |
| Graphic Waveform of Voltage and Current | |
| Graphic Phasor Diagram | |
| Transient Detection and Logging of Swell, Dip, and Outage. | |
| Fast peak function (39µs for 50 Hz, 33µs for 60Hz). | |
| Active (W, KW, HP), reactive (VAR, KVAR) and apparent (VA, KVA) power | |
| Power factor (PF), phase angle (ϕ), and energy (WH, KWH). | |
| Measurement of balanced 3 ϕ Power Quality. | |
| Programmable PT ratio from 1 to 3000 | |
| Hold functions. | |
| Auto power off function in 15 minutes. | |
| True RMS Value (V & I) | |
| Maximum Demand (MD in W, KW, MW) with programmable Period | |
| Harmonic Analysis (V and I) to 50th Order | |
| Display of 25 Harmonics in one screen | |
| Optically isolated RS-232C Interface | |
| Smart Datalogging | |
| Graphic Phasor Diagram Capcture 129 | |
| Transient Events | |
| Clamp Jaw Dia | 55mm |
| Realtime Output of Waveform Power Parameters and Harmonics at command Large Dot Matrix LCD Display with Backlit. | |

| | |
|---|---|
| AC Current | 4.0 – 1500.0A |
| Accuracy | ±0.5% |
| AC Voltage | 4.0 – 600.0V |
| Accuracy | ±0.5% |
| Power Factor | 0.000 – 1.000 |
| Accuracy | ±0.04 |
| Phase Angle | -180 to +180° |
| Accuracy | ±1° |
| Crest Factor | 1.00 to 99.99 |
| Accuracy | ±5% |
| kW /kVA /kVAr | 10.00 – 9999k |
| Accuracy | ±1% |

## Digital Earth Resistance Tester

| | |
|---|---|
| Data Hold facility | |
| Displays test result and battery voltage on the same screen | |
| LOCK Button for continuous HANDS FREE measurement | |
| Both Earth Resistance and Earth Resistivity can be measured | |
| Can be used in 4 Terminal and 3 Terminal configurations | |
| Display | 4 Digits EXTRA LARGE Backlit Dual LCD Display |
| Earth Resistance Range | 0 - 10/100/1000 Ohms |
| Accuracy | ±2% |
| Low Resistance Range | 0 - 200 k.Ohms |
| Accuracy | ±2% |
| DC Voltage | 0 - 1000V |
| Accuracy | ±0.8% |
| AC Voltage | 0 - 750V |
| Accuracy | ±1.2% |
| Complies with CE, CAT-III 1000V | |
| Complete with Testing Kit | |
| Re-Chargeable Battery and Battery Charger can be provided at extra cost | |


| | |
|---|---|
| Data Hold facility | |
| Displays test result and battery voltage on the same screen | |
| LOCK Button for continuous HANDS FREE measurement | |
| Both Earth Resistance and Earth Resistivity can be measured | |
| Can be used in 4 Terminal and 3 Terminal configurations | |
| Display | 4 Digits EXTRA LARGE Backlit Dual LCD Display |
| Earth Resistance Range | 0 - 20/200/2000 Ohms |
| Accuracy | ±2% |
| Low Resistance Range | 0 - 200 k.Ohms |
| Accuracy | ±2% |
| DC Voltage | 0 - 1000V |
| Accuracy | ±0.8% |
| AC Voltage | 0 - 750V |
| Accuracy | ±1.2% |
| Complies with CE, CAT-III 1000V | |
| Complete with Testing Kit | |
| Re-Chargeable Battery and Battery Charger can be provided at extra cost | |


## Digital Frequency Counter

| | |
|---|---|
| Bench Type | |
| 8 Digit RED LED Display | |
| Dual Channel Input | |
| Range | up to 2.7GHz |
| Resolution | 100Hz |
| Accuracy | ±1% |
| Sensitivity: 20mV rms up to 8MHz /30mV rms up to 10MHz /20mV rms up to 80Hz/ 30mV rms up to 2.7GHz | |
| Auxiliary Power Supply | 220V AC 50Hz |


## Digital Frequency Meter

| |
|---|
| Microprocessor based 4 digit display. |
| Available for ranges: 99.99Hz, 999.9 Hz, 10KHz and 100KHz ranges. |
| Available in 96 * 96 and 96*48 mm Bezel sizes. |
| Auxiliary Power Supply: 230V AC 50Hz /110V AC 50Hz /DC Auxiliary inputs also available |

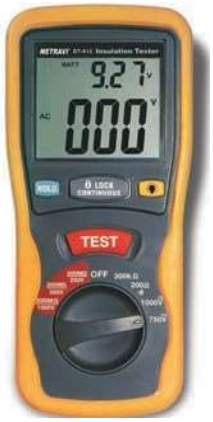

## Digital IC Tester

| | |
|---|---|
| Self Diagnosis | |
| Identifies Unknown model number of Devices | |
| Measures more than 2000 kinds of devices | |
| Tests 54 /74 series TTL | |
| Tests 4000 and 4500 series CMOS | |
| 40 Pin capability | |
| Control | 16 key tact switch keypad with dual tone sound indication |
| Display | 6 Digit LED Display |
| Test Socket | 40 pin ZIF Socket |
| Library of ICs | TTL54 Series, TTL55 Series, TTL74 Series, TTL75 Series, CMOS14 Series, CMOS40 Series, Optical Coupler Series, LED Display Series, RAM Series, SCM Series, CPU Peripheral Series |
| Auxiliary Power Supply | 220V AC 50Hz |

## Digital Insulation Resistance Tester

| | |
|---|---|
| Hand Held Easy to use instrument | |
| Extra Large Backlit LCD Display 3-1/2 Digits | |
| Data Hold Function | |
| Battery cum Mains Operated | |
| Over-range and Low Battery Indication | |
| Test Voltage | 250V /500V /1000V |
| Measuring Range | 200M∧ @250V |
| | 200M∧ @500V |
| | 2000M∧ @1000V |
| Accuracy | ±4% |
| Measures DC Voltage | 0 – 1000V |
| Accuracy | ±0.5% |
| Measures AC Voltage | 0 – 750V |
| Accuracy | ±1% |
| Low Resistance | 0 – 2k∧ |
| Accuracy | ±0.8% |
| Continuity Test | |

| | |
|---|---|
| Display | 3-1/2 Digits 1999 Counts Dual Extra Large Backlit Display |
| Displays test voltage and insulation resistance being measured, Battery Voltage and Voltage being measured, at the same time. | |
| Data Hold Facility | |
| Double Injection Moulded Body | |
| Anti-Slip Splash proof body | |
| Locking Facility that locks the output voltage while continuous Insulation Resistance test For Hands Free Operation | |
| Insulation Resistance | 200M∧ at 250V |
| | 200M∧ at 500V |
| | 2000M.∧at 1000V |
| Accuracy | ±3% |
| Low Resistance | 0 - 200∧ /200k∧ |
| Accuracy | ±1% |
| DC Voltage | 0 - 1000V |
| Accuracy | ±0.8% |
| AC Voltage | 0 - 750V |
| Accuracy | ±1.2% |
| Audible Continuity Test Facility | |
| Confirms to CE, EN 61010-1 | |



| | |
|---|---|
| Low power consumed CMOS double integral A/D transforming IC, auto-checking to zero, auto-displaying polarity, displaying when low or over battery. | |
| LCD | 3.5 digits big screen display, the max show value is 1999. |
| Has function of holding data and displaying signal. | |
| Can use rotating switch to change testing voltage. | |
| High voltage is on the rails when LED is on. | |
| Low Battery Indication. | |

| | |
|---|---|
| Scale | 0-20G∧. Transforming scale automatically |
| Test Voltage | 250V /500V /1000 /2500V |
| Insulation Resistance Range: | 2000M.∧@ 250V |
| | 20G.∧ @500V |
| | 20G.∧ @1000V |
| | 20G.∧ @2500V |
| Accuracy | ±3% |

| | |
|---|---|
| Designed to following safety standards:IEC 61010-1 (CAT IV 600V Pollution degree 2) IEC 61010-031 (Requirements for hand-held probes) | |
| Insulation test range | 0.1M∧ to 60G∧ |
| Insulation test voltages | 500V,1000V, 2500V, 5000V |
| AC/DC voltage | 0.5 V to 600 V |
| Continuity Test Fecility | |
| Resistance | 0.1 ∧ to 6k∧ |
| Battery Cum Mains Operated | |
| With auto-discharge function & voltage output warning function | |
| Backlight levels selector function to facilitate working at dimly illuminated location or at nighttime work. | |
| LIVE circuit warning symbols plus audible warning. | |
| Live circuit detection prevents insulation test if voltage > 30 V is detected for added user protection | |
| With Auto-power off function & battery check. | |
| With Timer measurement function : Automatically performs a measurement at the set time. | |
| With Polarization index measurement (PI) | |
| With Dielectric absorption ratio measurement (DAR) | |
| Auto ranging with larger 6000 counts LCD display with bargraph | |
| MAX/MIN, PEAK,Relative value & Data hold functions for DC/AC voltage measurments. | |
| Accuracy | +2.5% |

| | |
|---|---|
| Four ranges | 500V, 1000V, 2500V, 5000V |
| High voltage output testing auto extends for 30 seconds. | |
| Autorange insulation resistance testing | |
| 2seconds high voltage output interval with warning beeper | |
| AC voltage /Continuity/Low resistance measuring | |
| White backlight to view the test results in dimly lit areas. | |
| Display | LCD : 75*35mm, |
| Max reading | 1999 |
| Low battery indication | |
| Battery Cum Mains Operated | |
| Test Voltage | 500V/1000V/2500V/5000V |
| Insulation Resistance Range | 2000M∧ @500V |
| | 2000M∧ @1000V |
| | 20G∧ @2500V |
| | 200G∧ @5000V |
| Accuracy | ±5.0% |
| AC Voltage Measurement | 0 – 750V |
| Accuracy | ±1.0% |
| Low Resistance | 0 – 200∧ |
| Accuracy | ±0.8% |

| | |
|---|---|
| Micro-processor Controlled | |
| Auto-ranging insulation Resistance Range | |
| Warning and Display of external voltage presence | |
| Bargraph Indicates test voltage rise and decay can beobserved during tests | |
| Low Battery Indication | |
| Data Hold | |
| Auto Power Off | |
| Body Sealed with gasket | |
| Display | 2 lines x 16 Characters Large LCD |
| Confirms to IEC-1010 CAT III | |
| Test Voltage | 1000V /2500V /5000V /10,000V |
| Measuring Range | 0 - 60GΩ @1000V |
| | 0 - 150GΩ @2500V |
| | 0 - 300GΩ @5000V |
| | 0 - 600GΩ @10,000V |

| | |
|---|---|
| Battery Cum Mains Operated | |
| Data Hold Function | |
| Fault Protection, Buzzer Alarms if short circuit | |
| Display | 3-1/2 Digits 1999 Counts LCD |
| Low Battery Indication | |
| Test Voltage | 100V |
| Insulation Resistance Range | 200MΩ |
| Accuracy | ±4% |

| | |
|---|---|
| Battery Cum Mains Operated | |
| Data Hold Function | |
| Fault Protection, Buzzer Alarms if short circuit | |
| Display | 3-1/2 Digits 1999 Counts LCD |
| Low Battery Indication | |
| Test Voltage | 250V |
| Insulation Resistance Range | 200MΩ |
| Accuracy | ±4% |

| | |
|---|---|
| Battery Cum Mains Operated | |
| Data Hold Function | |
| Fault Protection, Buzzer Alarms if short circuit | |
| Display | 3-1/2 Digits 1999 Counts LCD |
| Low Battery Indication | |
| Test Voltage | 500V |
| Insulation Resistance Range | 1000MΩ |
| Accuracy | ±4% |

| | |
|---|---|
| Battery Cum Mains Operated | |
| Data Hold Function | |
| Fault Protection, Buzzer Alarms if short circuit | |
| Display | 3-1/2 Digits 1999 Counts LCD |
| Low Battery Indication | |
| Test Voltage | 1000V |
| Insulation Resistance Range | 2000MΩ |
| Accuracy | ±4% |

## Digital KWH Meter

| |
|---|
| Microprocessor based Three phase and single phase KWh meters |
| 16 x 2 Lines Backlit LCD . |
| Options of RUN HOUR or REAL TIME CLOCK DISPLAY . |
| 1% accuracy. |
| Available in 96 * 96 mm Bexel size. |
| User Programmable CT/ PT ratios to Give a Direct Reading . |
| Password Protected for CT/PT ratios. |
| Available for 415V(LT) and 110 V(HT) systems and for |
| 1 Amp and 5 Amp CT secondary. |
| Auxiliary Power Supply : 230V AC 50Hz /110V AC 50Hz |


## Digital LCR Meter

| | |
|---|---|
| Data Hold Facility to freeze the displayed data | |
| MAX/MIN Data Record | |
| Relative Measurement | |
| Display | 11,000 Counts Backlit LCD |
| Inductance | 0 - 2m/20m/200m/2/20H |
| Confirms to EN61010-1, Insulation Class 2 | |
| Low Battery and Over-range indication | |
| Auto Power Off | |
| Inductance | 0 - 11m/110m/11/20H |
| Accuracy | ±2.0% |
| Capacitance | 0 - 11n/110n/1.1u/11u/110u/ 1.1m/110m/110mF |
| Accuracy | ±5.0% |
| Resistance | 0 - 110/1.1k/11k/110k/1.1M/11M/ 110MΩ |
| Accuracy | ±1.2% |
| Diode Test, Audible Continuity Test, Transistor Test Facility | |

| | |
|---|---|
| Dual Backlit LCD display | |
| Auto LCR smart check and measurement | |
| Series/Parallel modes are selectable | |
| Ls/Lp/Cs/Cp with D/Q/θ/ESR parameters | |
| Support DCR mode 200.00∧~200.0M∧ | |
| Five different test frequency are available | 100/120/1k/10k/100k Hz |
| Test AC signal level | 0.6mVRMS typ. |
| Test range | (ex. F=1kHz) |
| L | 200.00 µH ~ 2000.0 H |
| C | 2000.0 pF ~ 2.000 Mf |
| R | 20.000 ∧ ~ 200.0 M∧ |
| Multi-level battery voltage detector | |
| Support Backlight & Buzzer sound driver | |
| Parameters displayed: DC Resistance, Serial Inductance, Parallel Inductance, Serial Capacitance, Parallel Capacitance, Serial Resistance, Parallel Resistance, Phase Angle, Equivalence Serial Resistance, Dissipation Factor, Quality Factor | |


## Digital LCR Multimeter

| | |
|---|---|
| Peak Hold facility | |
| Display | 3-1/2 Digital 1999 Counts Backlit LCD |
| Low Battery and Overload Indication | |
| Confirms to IEC1010 Standards | |
| Auto Power Off | |
| DC Voltage | 0 - 200mV/2V/20V/200V/1000V |
| Accuracy | ±0.5% |
| AC Voltage | 0 - 200mV/2V/20V/200V/750V |
| Accuracy | ±0.8% |
| DC Current | 0 - 2mA/20mA/200mA/20A. |
| Accuracy | ±0.8% |
| AC Current | 0 - 2mA/20mA/200mA/20A. |
| Accuracy | ±1.0% |
| Resistance | 0 - 200/2k/20k/200k/2M/20M/2000M∧ |
| Accuracy | ±0.8% |
| Capacitance | 0 - 20nF/200nF/2uF/20uF/200uF |
| Accuracy | ±2.5% |
| Frequency | 0 - 2k/20k/200k/2M/10MHz |
| Accuracy | ±1.0% |
| Inductance | 0 - 2m/20m/200m/2/20H |
| Accuracy | ±2.5% |
| Temperature | -40°C~+1000°C |
| Accuracy | ±1.0% |
| Diode Test, Transistor Test and Audible Continuity test facility. | |


| | |
|---|---|
| True RMS LCR Multimeter With RS-232C PC interface facility10 Memory Location. Time Mode with alarm, clock andstop watch. MIN., MAX., AVG. and relative modes. DataHold and Run Modes, 20A Fuse Protection | |
| Display | 3-3/4 Digits Backlit 3999 Counts |
| Dual Extra Large LCD | |
| DC Voltage | 0 - 400mV/4V/40V/400V/1000V |
| Accuracy | ±0.3% |
| AC Voltage | 0 - 400mV/4V/40V/400V/750V T-RMS. |
| Accuracy | ±1.0% |
| DC Current | 0 - 400uA/400mA/20A. |
| Accuracy | ±1.0% |
| AC Current | 0 - 400uA/400mA/20A T-RMS. |
| Accuracy | ±1.5% |
| Resistance | 0 - 400/4k/40k/400k/4M/40M∧ |
| Accuracy | ±0.5% |
| Capacitance | 0 - 100uF |
| Accuracy | ±3.0% |
| Frequency | 0 - 10 kHz/100kHz/1MHz/10MHz |
| Accuracy | ±0.01% |
| Inductance | 0 - 20/50/100H |
| Accuracy | ±3.0% |
| Duty Cycle | 0.1% ~ 99.9% |
| Accuracy | ±1.2% |
| Temperature | -20°C~+1200°C /0°F~+2000°F |
| Accuracy | ±3% |
| dBm | -25dBm to + 59dBm |
| Accuracy | ±0.5dBm |
| Logic Test, Diode Test, Signal Output and Audible Continuitytest facility. | |
| Confirms to UL 1244 AND VDE-0411 | |
| Complete with carrying case, instruction manual, testleads, battery, RS-232C PC Interface cable and software. | |

| | |
|---|---|
| Auto Power Off | |
| Display | 3-3/4 Digits 3999 Counts LCD |
| DC Voltage | 0 - 400mV/4V/40V/400V/1000V |
| Accuracy | ±0.5% |
| AC Voltage | 0 - 400mV/4V/40V/400V/750V |
| Accuracy | ±1.0% |
| DC Current | 0 - 400u/40mA/400mA/10A |
| Accuracy | ±1.0% |
| AC Current | 0 - 400u/10mA/100mA/10A |
| Accuracy | ±1.5% |
| Resistance | 0 - 400/4k/40k /400k/4M/40M/400M∧ |
| Accuracy | ±0.8% |
| Capacitance | 0 - 4nF/ 40nF/ 400nF/4uF/400uF |
| Accuracy | ±5.0% |
| Freq ue ncy | 0 - 1kHz/10k/100k/1000kHz |
| Accuracy | ±0.5% |
| Inductance | 0 - 4m/40m/400m/4/40H |
| Accuracy | ±5.0% |

| | |
|---|---|
| Temperature | -20 ~750°C |
| Accuracy | ±1°C |
| Logic Test, Diode Test and Audible Continuity test facility. | |
| Confirms to CE Standards | |
| Overload Protection of 500V DC/AC RMS in Resistance, Capacitance, Inductance, | |
| Logic Test, Diode Test and Continuity Test Ranges. | |

## Digital Leakage Current Meter

| | |
|---|---|
| Auto Power Off | |
| Max /Min recording with Data Hold | |
| Clamp Jaw Size | 30mm |
| Display | 3-3/4 Digits 3999 Counts LCD with 40 Segment analog Bargraph |
| AC Voltage | 0 - 400V |
| Accuracy | ±1.5% |
| AC Current | 0 - 40m/400m/4A/40A/80A/100A |
| Accuracy | ±1.0% |
| Resistance | 40 - 400 ∧ |
| Accuracy | ±1.0% |
| Low Pass Filter for eliminating effect of High Frequency Noise. | |

| | |
|---|---|
| High Resolution up to 100uA | |
| Display | 3-1/2 Digits 1999 Counts Backlit LCD |
| Auto Power Off | |
| Max Hold Function | |
| Clamp Jaw Dia | 30mm |
| Overload and Low Battery Indication | |
| AC Current | 0 – 200m /2 /200A |
| Accuracy | ±2.5% |
| Confirms to EN61010-1, EN61010-2-032, CAT II 600V | |

| | |
|---|---|
| High Accuracy Leakage Current tester | |
| Confirms to IEC 61010-1 (2001), IEC 61010-2-032 (2002), Installation Category II 600V Phase to Earth, Catergory III 300V Phase to Earth. | |
| Display | 3-1/2 Digits LCD Display 3200 Counts |
| Range | 0 – 30m/300m/30A/300A (50/60Hz) |
| Accuracy | ±1.2% |
| Jaw Size | 40mm |
| Over Range Indication | |
| Data Hold Function | |

| | |
|---|---|
| Data Hold Function | |
| Auto Power Off | |
| High Precision AC/DC Low Current Measurement | |
| Low battery and Overload Indication | |
| Provides Analogue Output for Recording function. | |
| DC Voltage | 0 – 400m/4/40/400/600V |
| Accuracy | ±1.0% |
| AC Voltage | 0 - 400m/4/40/400/600V |
| Accuracy | ±1.0% |
| DC Current | 0 – 4 /80A |
| Accuracy | ±2.8% |
| AC Current | 0 – 4 /80A |
| Accuracy | ±3.0% |
| Resistance | 0 – 400/4k/40k/400k/4M/40M∧ |
| Accuracy | ±1.0% |
| Capacitance | 0 – 40n/400n/4u/40u/100uF |
| Accuracy | ±3.0% |
| Frequency | 0 – 5/50/500/5k/50k/500k/5M/10MHz |
| Accuracy | ±1.2% |
| Duty Cycle | 0.5 to 99.0% |
| Accuracy | ±1.2% |
| Confirms to CE, CAT-III 600V | |

## Digital Lux Meter

| | |
|---|---|
| Easy to Use, Pocket Size, light weight | |
| Over range Indication | |
| Low Battery Indication | |
| Long Life Silicon Photo Diode sensor with filter | |
| Measurement rate | 1.5 times /Sec |
| Display | 3-1/2 Digits 1999 Counts LCD |
| Range | 0 - 200/2000/20,000/50,000 Lux |
| Accuracy | ±5% |
| Resolution | 0.1 Lux |

| | |
|---|---|
| Easy to Use, Pocket Size, light weight | |
| Over range Indication | |
| Max Hold and Data Hold Facility | |
| Auto Power Off | |
| Low Battery Indication | |
| Displays both in Lux and Foot Candle range | |
| Long Life Silicon Photo Diode sensor with filter | |
| Measurement rate | 1.5 times /Sec |
| Display | 3-1/2 Digits 1999 Counts LCD |
| Range | 0 - 200/2000/20,000/50,000 Lux<br>0 - 200/2000/20,000/50,000 Fc |
| Accuracy | ±5% |
| Resolution | 0.1 Lux /Fc |

| | |
|---|---|
| Easy to use, Pocket Size, Light weight | |
| Over range Indication | |
| Data hold facility | |
| Low Battery Indication | |
| Measuring both in Lux and Foot Candles | |
| Long life Silicon Photo Diode sensor | |
| Measurement Rate | 2.5 times /Sec |
| Display | 1999 Count, Large LCD display |
| Range 1 | 0 – 200/2000/20,000/200,000 Lux |
| Range 2 | 0 –20/ 200/2000/20,000 FC |
| Accuracy | ± 3% |


| | |
|---|---|
| Data hold facility to freeze the displayed data | |
| Autoranging | |
| Annunciator display and automatic zero facility | |
| With USB Interface for PC Connectivity | |
| The correction factor need not be manually calculated for non standard light sources | |
| Short rise and fall times | |
| Peak Hold function for tracing the peak signal of light pulse | |
| Measures in both Lux and Fc scales | |
| Meter corrected for spectral relative efficiency | |
| Auto Power Off Facility | |
| Max and Min recording facility | |
| Relative measuring facility | |
| Display | 3-3/4 Digits Backlit Large LCD Displaywith 40 segment analogue bargraph |
| Range | 0 - 400/4000/40,000/4,00,000 Lux |
| | & 0 - 40/400/4000/40,000 Fc. |

| | |
|---|---|
| Auto Ranging | |
| Used to Measure Low Light Intensity | |
| Zero Adjustment | |
| Easy to use, Pocket Size, Light weight | |
| Over range Indication | |
| Data hold and MAX Hold facility | |
| Low Battery Indication | |
| Measuring both in Lux and Foot Candles | |
| Long life Silicon Photo Diode sensor | |
| Measurement Rate | 2.5 times /Sec |
| Display | 2000 Count, Large LCD display |
| Range 1 | 0 – 20/200/2000/20,000/2,00,000 Lux |
| Range 2 | 0 –20/ 200/2000/20,000 FC |
| Accuracy | ± 3% |


## Digital Micro Ohms Meter

| | |
|---|---|
| Compact Highly Reliable 3-1/2 Digit Instrument | |
| Uses 4 Terminal Measurement method | |
| Has 12.5 mm high 7 segment 3-1/2 Digits LED Display | |
| Range | 0 - 1999u/19.99m/199.9m/ 1.999/19.99/199.9/1999^ |
| Accuracy | + 0.3% + 2dgs |
| Normal Test Current | 1.5 /0.75 /0.75 /75m/ 7.5m /0.75m /0.075mA |
| Warm up Time | 30 minutes |
| Input | 230V Single Phase AC 50Hz |
| Complete with instruction manual, mains chord andtest leads | |


| | |
|---|---|
| Easy to Use, High Precision | |
| Over range Indication | |
| Peak /Max /Min and Data Hold Facility | |
| Relative Measurement facility | |
| Reset Function | |
| Auto Power Off | |
| Low Battery Indication | |
| Displays both in Lux and Foot Candle range | |
| Long Life Silicon Photo Diode sensor with filter | |
| Auto /Manual Ranging | |
| Measurement rate | 1.5 times /Sec |
| Display | 3-3/4 Digits 3999 Counts with 40 segment analogue Bargraph BacklitLCD |
| Range Lux | 0 - 40/400/4000/40,000/3,00,000 |
| | 0 - 400/4000/30,000 Fc |
| Accuracy | ±5% |
| Resolution | 0.1 Lux /Fc |
| Meter corrected for spectral relative efficiency | |
| No need of correction factor for non standard lightsource | |


| | |
|---|---|
| Measures winding resistance of highly inductive transformers of single phase and 3 Phase Star and Delta connections. | |
| Has four terminal bridge for lead resistance compensation. | |
| The set will be capable of overcoming high inductance of the transformer and allows fast measurements. | |
| Test Current - 10m /100m /1 and10A. | |
| Duty | Continuous for 10m, 100m and 1A, 30mins ON and 30mins OFF for 10A |
| Resistance measurement range | 0 - 2m/20m/200m/2/20/200 /2000 ^ |
| Accuracy | ±0.5% or rdg |
| Auxiliary Power Supply | 230V Single Phase AC 50Hz. |
| Complete with current leads, potential leads, power supply cable and instruction manual | |

| | |
|---|---|
| Used to measure low resistance of switch contacts, SF Switchgears, bus bars, splices, joints, fuses, breaker contacts and low inductive windings | |
| Test Current is 100A selectable in steps of 5, 10, 20,50 and 100A | |

| | |
|---|---|
| Resistance measurement range | 0 - 199.9u/1999u/19.99m/ 199.9mΛ |
| Accuracy | ±1% or rdg ±5 dgts |
| Auxiliary Power Supply | 230V Single Phase AC50Hz. |
| Complete with current leads, potential leads, power supply cable and instruction manual | |

| | |
|---|---|
| Used to measure low resistance of switch contacts, SF Switchgears, bus bars, splices, joints, fuses, breaker contacts and low inductive windings | |
| Test Current is 200A selectable in steps of 5, 10, 20,50 and 200A | |
| Resistance measurement range | 0 - 199.9u 1999u 19.99m/ 199.9mΛ |
| Accuracy | ±1% or rdg ±5 dgts |
| Auxiliary Power Supply | 230V Single Phase AC50Hz. |
| Complete with current leads, potential leads, power supply cable and instruction manual | |

## Digital Milli Ohms Meter

| | |
|---|---|
| Low resistance range | 0 ~ 40Λ |
| Display | 3-3/4 Digits Large Backlit LCD |
| Maximum output current | 200mA (400mΛ) |
| Relative measurement | |
| Auto Power Off | |
| Low Battery and Over Range Indication | |
| 4Terminal Measurement with kelvin clip probes | |
| Overload Protection on all ranges | |
| Max /Min Recording | |
| Confirms to CAT-III 600V | |
| Low Resistance | 0 – 400m/4/40 Λ |
| Accuracy | ± 1% |
| DC Voltage | 0 – 400m/4/40/400/1000V |
| Accuracy | ± 1% |
| AC Voltage | 0 – 400m/4/40/400/750V |
| Accuracy | ± 1% |
| DC Current | 0 – 400u/4000u/40m/400mA |
| Accuracy | ± 1.5% |
| AC Current | 0 – 400u/4000u/40m/400mA |
| Accuracy | ± 1.5% |
| Capacitance | 0 – 4n/40n/400n/4u/ 40u/400u/ 4m/40mF |
| Accuracy | ± 3.0% |
| Resistance | 0 – 400/4k/40k/400k/ 4M/40MΛ |
| Accuracy | ± 1.0% |


## Digital Moisture Meter

| | |
|---|---|
| Hardened Material like Plaster, Concrete and Mortar | |
| Battery Operated | |
| Low Battery Indication | |
| Impact Proof Plastic Housing | |
| Measuring principle | Electrical Resistance |


| | |
|---|---|
| Electrode length | 8mm |
| Electrodes | Integrated and replaceable |
| Display | Extra Large LCD |
| Range | Wood, Paper : 6 - 44% |
| | Hardened Material : 0.2 to 2.0% |
| Accuracy | Wood : ± 1% |
| | Hardened Material : ±0.05% |

| | |
|---|---|
| Used to measure moisture content in Wood, Bamboo, Cotton, Tobacco, Paper, Foodstuffs etc | |
| Data Hold Facility | |
| Low Battery Indication | |
| Quick Response | |
| Display | 2 Digits Large LCD |
| Range | 5% to 40% |
| Resolution | 1% |
| Accuracy | ±1% |
| Built in electrodes | |


| | |
|---|---|
| Micro-computer based design for fast and accurate reading | |
| Low Power Consumption | |
| Fast and Easy to operate | |
| Measures moisture content of 3 types of Papers (Carton,Copperplate paper and Writing paper) through spring contact precise measuring | |
| Range | 0-40% |
| Resolution | 1% |


| | |
|---|---|
| Specially Designed for Timber Market | |
| Has Eight Calibrating Scales | |
| Accurate Measurement in 150 wood species | |
| Can be used with integral pin electrodes or using the heavy duty moisture probe | |
| Automatic temperature compensation | |
| Range | 6% to 100% |
| Resolution | 0.1 |
| Accuracy | ±1% |
| Temperature Measuring Range | -35°C ~ 80°C |
| Accuracy | ±2°C |


| |
|---|
| Pinless Moisture meter is an electronic dampness indicator with a measuring process working on the principle of high frequency measurement. |
| Used for non-destructive tracing dampess in building materials of all kinds as well as for detecting damp distribution in walls, ceiling and floors. |
| Suitable for pre-testing the readiness of building materials for covering prior to CM Measurment |
| Quickly indicates the moisture content of materials |
| Depth of penetration about 20 – 40mm |
| Low battery Indication, Auto Power Off |
| Max /Min Record Function. |
| Data Hold |
| White Backlit LCD Display |
| Measuring Range : 0 to 100% |


Technical Specifications & Appearance are subject to change without prior notice

# Digital Multimeter

| | |
|---|---|
| Display: 1999 (3 ½) Count , 15mm Backlit LCD | |
| Auto Power Off | |
| Over Load Protection of 500V DC/AC RMS | |
| DC Voltage | 0-200mV/2V/20V/200V/600V |
| Accuracy | ±0.5% |
| AC Voltage | 0-200V/600V |
| Accuracy | ±1.2% |
| DC Current | 0-2000µA/20mA/200mA/10A |
| Accuracy | ±1.0% |
| Resistance | 0-200/2K/20K/200K/2M.ohms |
| Accuracy | ±1.0% |
| Battery Test | 9V/1.5V |
| With Diode Test, Continuity Test and Data Hold. | |
| Confirms to CE, CAT-III 600V, IEC 1010-1 | |


| | |
|---|---|
| Auto Ranging | |
| Data Hold and Max Hold Facility | |
| Auto Power Off | |
| Display | 3-1/2 digits 1999 Counts backlit LCD |
| DC Voltage | 0 – 200mV/2V/20V/200V/600V. |
| Accuracy | ± 0.5% |
| AC Voltage | 0-2V/20V/200V/600V |
| Accuracy | ± 0.8% |
| DC Current | 0-200uA/2000uA/20mA/200mA/10A |
| Accuracy | ± 1.5% |
| AC Current | 0-200uA/2000uA/20mA/200mA/10A |
| Accuracy | ± 1.5% |
| Resistance | 0-200∧/2k∧/20k∧/200k∧/2M∧/20M∧ |
| Accuracy | ± 0.8% |
| Frequency | 0 - 20kHz |
| Accuracy | ± 1.5% |
| With Diode test, Audible Continuity test, Data Hold and Max Hold Facility | |
| Confirms to CE, CAT-II 600V, IEC 61010-1 | |


| | |
|---|---|
| Auto Power Off | |
| Data Hold | |
| Display | 3-1/2 digits 1999 counts LCD |
| DC Voltage | 0-200mV/2V/20V/200V/1000V |
| Accuracy | ± 0.5% |
| AC Voltage | 0-2V/20V/200V/ 750V |
| Accuracy | ± 0.8% |
| DC Current | 0-200Ua/2mA/20mA/200mA/10A |
| Accuracy | ± 0.8% |
| AC Current | 0-2mA/20mA/200mA/10A |
| Accuracy | ± 1.2% |
| Resistance | 0-200/2K/20K/200K/2M/20M∧ |
| Accuracy | ± 1.0% |
| With Diode test, Transistor test, Audible continuity | |
| Confirms to CE, CAT-III 600V, IEC 1010-1 | |


| | |
|---|---|
| Display | 3-1/2 Digits 1999 Counts LCD |
| DC Voltage | 0-200mV/2V/20V/200V/1000V |
| Accuracy | ± 0.5% |
| AC Voltage | 0-2V/20V/200V/750V |
| Accuracy | ± 0.8% |
| DC Current | 200µA/2mA/20mA/200mA/20A. |
| Accuracy | ± 0.8% |
| AC Current | 2mA/20mA/200mA/20A |
| Accuracy | ± 1.2% |
| Resistance | 0-200∧/2k∧/20k∧/200k∧/2M/20M∧ |
| Accuracy | ± 0.8% |
| With Diode Test, Transistor Test, Audible Continuity Test | |
| Fully Protected: Overload Protected up to 500V DC/AC RMS in all ranges | |
| Confirms to CE, CAT-II 1000V | |


| | |
|---|---|
| Auto Ranging | |
| Auto Power Off | |
| Data Hold and Max. Record Function | |
| Display | 3-1/2 digits 1999 Counts backlit LCD |
| DC Voltage | 0 – 200mV/2V/20V/200V/600V. |
| Accuracy | ± 0.5% |
| AC Voltage | 0-200mV/2V/20V/200V/600V |
| Accuracy | ± 0.9% |
| DC Current | 0-200uA/2000uA/20mA/200mA/10A |
| Accuracy | ± 1.5% |
| AC Current | 0-200uA/2000uA/20mA/200mA/10A |
| Accuracy | ± 1.5% |
| Resistance | 0-200∧/2k∧/20k∧/200k∧/2M∧/20M∧ |
| Accuracy | ± 0.8% |
| Temperature | -20°C to 1000°C /0°F to 1832°F |
| Accuracy | ± 2.0% |
| With Diode test, Audible Continuity test | |
| Confirms to CE, CAT-II 600V | |


| | |
|---|---|
| Auto Power Off | |
| Data Hold to freeze the displayed reading | |
| Display | 3-1/2 digits 1999 Counts Backlit Extra Large LCD |
| DC Voltage | 0-200mV/2V/20V/200V/1000V |
| Accuracy | ± 0.5% |
| AC Voltage | 0-2V/20V/200V/750V |
| Accuracy | ± 0.8% |
| DC Current | 0-20mA/200mA/20A |
| Accuracy | ± 0.8% |
| AC Current | 0-20mA/200mA/20A |
| Accuracy | ± 1.0% |
| Resistance | 0-200∧/2k∧/20k∧/200k∧/2M∧/200M∧ |
| Accuracy | ± 0.8% |
| Capacitance | 0-20nF/2uF/200uF |
| Accuracy | ± 2.5% |
| Temperature | -20°C to 1000°C |
| Accuracy | ± 1.0% |
| Frequency | 0-2KHz/200KHz |
| Accuracy | ± 3.0% |
| With Diode Test, Transistor Test, Hot wire Test and Audible Continuity Test Facility. | |
| Confirms to IEC1010. CE, CAT II 1000V | |

| | |
|---|---|
| Auto Ranging | |
| Auto Power Off | |
| Data Hold Facility to freeze the displayed Data | |
| Double Insulation class 2 Double Injection Molded Housing. | |
| Overload Protection of 500V DC/AC RMS in the resistance, Temperature, Diode test and continuity test ranges. | |
| Has 10A Fuse Protection. | |
| Display | 3-1/2 Digits 2000 Counts LCD with Function Indicator |
| DC Voltage | 0-200mV/2V/20V/200V/1000V |
| Accuracy | ± 0.5% |
| AC Voltage | 0.200mA/2V/20V/200V/1000V |
| Accuracy | ± 1.2% |
| DC Current | 0-200uA/2000uA/20mA/200mA/10A |
| Accuracy | ± 1.0% |
| AC Current | 0-200uA/2000uA/20mA/200mA/10A |
| Accuracy | ± 1.5% |
| Resistance | 0-200∧/2K∧/20K∧/200K∧/2M∧/20M∧ |
| Accuracy | 1.0% |
| Temperature | -50°C to +1000°C/-58°F to +1832°F |
| Accuracy | ±3% |
| Clamp-On AC/DC Current adaptor can be used to measure 0-200/2000A AC/DC. | |
| Accuracy shall be ± 1.5% for AC Measurement and ± 1.0% for DC current Measurement. | |
| Confirms to EN61010-1, CAT III 600V,CE. | |


| | |
|---|---|
| Data Hold to Freeze Displayed data | |
| Auto Power Off | |
| Relative Measurement Facility | |
| Display | 3-¾ Digits 4000 Counts LCD |
| DC Voltage | 0-400mV/4V/40V/400V/600V |
| Accuracy | ± 0.5% |
| AC Voltage | 0-400mV/4V/40V/400V/600V |
| Accuracy | ± 1.2% |
| DC Current | 0-400uA/4000uA/40mA/400mA/10A |
| Accuracy | ± 1.0% |
| AC Current | 0-400uA/4000uA/40mA/400mA/10A |
| Accuracy | ± 1.5% |
| Resistance | 0-400∧/4K∧/40K∧/400K∧/4M∧/40M∧ |
| Accuracy | ± 1.0% |
| Capacitance | 0-4nF/40nf/400nF/4uF/40uF/200uF |
| Accuracy | ± 3.0% |
| Frequency | 0-9.999Hz/99.99Hz/999.9Hz/9.999KHz/ 99.99KHz/999.9KHz/9.999MHz |
| Accuracy | ± 1.2% |
| Duty Cycle | 0 -0.1% - 99.9% |
| Accuracy | ± 1.2% |
| Temperature | -20°C to +760°C /-4°F to +1400°F |
| Accuracy | ± 3.0% |
| Diode Test and Audible Continuity Test | |
| Confirms to CAT-III 600V,EN61010-1, CE | |


| | |
|---|---|
| Data Hold to freeze displayed data | |
| Auto power Off | |
| Auto-ranging | |
| Relative Measurement facility | |
| Display | 3-3/4 Digits 3999 counts LCD |
| DC Voltage | 0-400mV/4V/40V/400V/1000V |
| Accuracy | 0.5% |
| AC Voltage | 0-400mV/4V/40V/400V/750V |
| Accuracy | 0.8% |
| DC Current | 0-400uA/4000uA/40mA/400mA/4A/20A |
| Accuracy | 1.0% |
| AC Current | 0-400uA/4000uA/40mA/400mA/4A/20A |
| Accuracy | 1.5% |
| Resistance | 0-400∧/4K∧/40K∧/400K∧/4M∧/40M∧ |
| Accuracy | 0.8% |
| Capacitance | 0-4nF/40nF/400nF/ 4µF/40µF/200µF |
| Accuracy | ±0.5% |
| Frequency | 0-10Hz/100Hz/1000Hz/10KHz/100KHz/ 1MHz/30MHz |
| Accuracy | ±0.5% |
| Temperature | -40°C to +1000°C |
| Accuracy | ± 0.8% |
| Duty Cycle, Diode test, Transistor test and audible Continuity Test. | |
| Confirms to CE, EMC/LVD, IEC1010. | |


| | |
|---|---|
| Data Hold to Freeze Displayed data | |
| Auto Power Off | |
| Relative Measurement facility | |
| Display | 6000 Counts LCD Backlit display with anlogue bargraph |
| DC Voltage | 0-600mV/6V/60V/600V/1000V |
| Accuracy | ± 0.5% |
| AC Voltage | 0-6V/60V/600V/1000V |
| Accuracy | ± 1.2% |
| DC Current | 0-6A/10A |
| Accuracy | ± 2.5% |
| AC Current | 0-6A/10A |
| Accuracy | ± 3.0% |
| Resistance | 0-600∧/6K∧/60K∧/600K∧/6M∧/60M∧ |
| Accuracy | ± 1.0% |
| Capacitance | 0-40nf/400nF/4uF/40uF/400uF/4000uF |
| Accuracy | ± 3.0% |
| Frequency | 0-9.999Hz/99.99Hz/999.9Hz/9.999KHz/ 99.99KHz/999.9KHz/20MHz |
| Accuracy | ± 1.2% |
| Duty Cycle | 0 -0.1% - 99.9% |
| Accuracy | ± 1.2% |
| Temperature | -20°C to +760°C /-4°F to +1400°F |
| Accuracy | ± 3.0% |
| Diode Test and Audible Continuity Test | |
| Confirms to CAT-III 600V, EN61010-1, CE. | |
| Overload protection upto 600V AC/DC on all range | |

| | |
|---|---|
| Data Hold to Freeze Displayed data | |
| Auto Power Off | |
| True RMS | |
| Display | 6000 Counts Backlit LCD with anlogue bargraph |
| DC Voltage | 0-600mV/6V/60V/600V/1000V |
| Accuracy | ± 0.5% |
| AC Voltage | 0-6V/60V/600V/1000V |
| Accuracy | ± 1.5% |
| DC Current | 0-6A/10A |
| Accuracy | ± 2.5% |
| AC Current | 0-6A/10A |
| Accuracy | ± 3.0% |
| Resistance | 0-600∧/6K∧/60K∧/600K∧/6M∧/60M∧ |
| Accuracy | ± 1.0% |
| Capacitance | 0-40nf/400nF/4uF/40uF/400uF/4000uF |
| Accuracy | ± 3.0% |
| Frequency | 0-9.999Hz/99.99Hz/999.9Hz/9.999KHz/ 99.99KHz /999.9KHz/20MHz |
| Accuracy | ± 1.2% |
| Duty Cycle | 0 -0.1% - 99.9% |
| Accuracy | ± 1.2% |
| Temperature | -20°C to +760°C /-4°F to +1400°F |
| Accuracy | ± 3.0% |
| Diode Test and Audible Continuity Test | |
| Confirms to CAT-III 600V,CAT-II 1000V EN61010-1, Class2 Double Insulation | |
| Overload protection of 600V DC/AC on all range | |


| | |
|---|---|
| Terminal Blocking Facility to prevent wrong connection. | |
| Overload Protection of 500V DC/AC RMS in the Resistance, Capacitance, Frequency, Temperature, Duty Cycle, Battery Test, Diode Test and Continuity Test Facilities. | |
| 20A AC/DC Fuse Protected | |
| Double Molded Housing. | |
| Data Hold to freeze the displayed data | |
| Auto Power Off | |
| Display | 3-¾ Digits 4000 Counts Extra Large Backlit LCD |
| DC Voltage | 0 – 400mV/4V/40V/400V/1000V |
| Accuracy | ± 0.5% |
| AC Voltage | 0 – 4V/40V/400V/1000V |
| Accuracy | ± 1.2% |
| DC Current | 0 - 400uA/4000uA/40mA/400mA/4A/20A |
| Accuracy | ± 1.0% |
| AC Current | 0 –400uA/4000uA/40mA/400mA/4A/20A |
| Accuracy | ± 1.5% |
| Resistance | 400∧/4k∧/40K∧/400K∧/4M∧/40M∧ |
| Accuracy | ± 1.0% |
| Capacitance | 0 – 40nF/400nF/4uf/40uF/100uF |
| Accuracy | ± 3.0% |
| Frequency | 0 – 9.999Hz/99.99Hz/999.9Hz/9.999kHz/ 99.99kHz/999.9kHz/9.999MHz |
| Accuracy | ± 1.2% |
| Duty Cycle | 0.1% to 99.9% |
| Accuracy | ± 1.2% |
| Temperature | -20°C to +760°C /-4°F to +1400°F |
| Accuracy | ± 3% |
| Battery Test | 9V range |
| Accuracy | ± 1% |
| Clamp-On AC/DC Current Adaptor can be used to measure 0 – 400A AC/DC | |
| Accuracy shall be ± 1.5% for AC Measurement and ± 1.0% for DC Measurement. | |
| Diode Test and Audible Continuity Test | |
| Confirms to CAT-II 1000V, EN61010-1, CE. | |


| | |
|---|---|
| Peak Hold to freeze the peak value | |
| Auto Power Off | |
| Display | 3-¾ Digits 3999 counts LCD |
| DC Voltage | 0-400mV/4V/40V/400V/1000V |
| Accuracy | ± 0.5% |
| AC Voltage | 0 - 400mV/4V/40V/400V/750V |
| Accuracy | ± 1.0% |
| DC Current | 0 – 40mA/400mA/20A |
| Accuracy | ± 1.0% |
| AC Current | 0 – 40mA/400mA/20A |
| Accuracy | ± 1.5% |
| Resistance | 0 - 400∧/4K∧/40K∧/400K∧/4M∧/40 M∧/400M∧ |
| Accuracy | ± 0.8% |
| Capacitance | 0 – 4nF/40nF/400nF/4uF/40uF |
| Accuracy | ± 5% |
| Frequency | 0 – 4kHz/40KHz/400KHz/4000kHz |
| Accuracy | ± 0.1% |
| Logic Test, Diode Test, and Audible Continuity Test Facility | |
| Has Overload Protection of 500V DC /AC RMS in Resistance, Capacitance, Logic Test, Frequency, Diode Test and Audible Continuity Test Ranges | |


| | |
|---|---|
| Data Hold | |
| Auto Power Off | |
| Live Wire Detection | |
| Display | 4-½ Digits 19999 Counts Backlit LCD |
| DC Voltage | 0 – 200mV/2V/20V/200V/1000V |
| Accuracy | ± 0.1% |
| AC Voltage | 0 – 2V/20V/200V/750V |
| Accuracy | ± 0.8% |
| DC Current | 0 – 200uA/2mA/200mA/20A |
| Accuracy | ± 0.5% |
| AC Current | 0 - 20mA/200mA/20A |
| Accuracy | ± 1.5% |
| Resistance | 0 - 200∧/2K∧/20K∧/200K∧/2M∧/200M∧ |
| Accuracy | ± 0. 4% |
| Capacitance | 0 - 20nF/2uF/200uF |
| Accuracy | ± 3.5% |
| Frequency | 0 – 20kHz/200kHz |
| Accuracy | ± 3% |
| Temperature | -40°C ~ +1000°C |
| Accuracy | ± 0.8% |
| Diode Test and Audible Continuity Test | |
| Confirms to IEC 1010-1 Standards | |

| | |
|---|---|
| T–RMS Measurement | |
| Data Hold | |
| Auto Power Off | |
| Display | 4 ½ Digits 19999 Counts Large LCD |
| DC Voltage | 0 – 200mV/2V/200V/1000V |
| Accuracy | ± 0.5% |
| AC Voltage | 0 – 200mV/2V/20V/200V/1000V T-RMS |
| Accuracy | ± 0.1% |
| DC Current | 0 - 20mA/200mA/10A |
| Accuracy | ± 0.5% |
| AC Current | 0 – 20mA/200mA/10A T-RMS |
| Accuracy | ± 1.0% |
| Resistance | 0 - 200∧/2K∧/20K∧/200K∧/2M∧/20M∧ |
| Accuracy | ± 0.1% |
| Capacitance | 0 – 20nF/200nF/2µF/20µF |
| Accuracy | ± 2.0% |
| Frequency | 0 – 20KHz/200KHz |
| Accuracy | ± 1.0% |
| Diode Test and Audible Continuity Test | |


| |
|---|
| The instrument has overload protection up to 20A DC/AC RMS in the Voltage Rangeand 1000V DC/AC RMS in the Current Range. |
| Surge Protection of 8 kV peak IEC 61010 |
| "O" Ring Seal Body |
| The instrument has IP-67 Protection making the body water proof, even if dipped in 1m. deep water for 30 mins. |
| Double molded injection body with rubber lining to provide insulation against electricalshocks and anti-slip grip. |
| Confirms to EN61010-1, CAT IV 600V, CAT III 1000V. |
| Two Years' Warranty against any manufacturing defects |

| | |
|---|---|
| T-RMS Measurement | |
| Data Hold to Freeze the displayed data | |
| Auto Power Off | |
| Double Molded Body | |
| Display | 4-½ Digits 19999 Counts LCD |
| DC Voltage | 0 – 200mV/2V/20V/200V/1000V |
| Accuracy | ± 0.5% |
| AC Voltage | 0 – 200mV/2V/20V/200V/750V T-RMS |
| Accuracy | ± 1.0% |
| DC Current | 0 – 200uA/2mA/20mA/200mA/20A |
| Accuracy | ± 0.5% |
| AC Current | 0 – 200uA/2mA/20mA/200mA/20A T-RMS |
| Accuracy | ± 1.2% |
| Resistance | 0 - 200∧/2K∧/20K∧/200K∧/2M∧/20M∧ |
| Accuracy | ± 0.15% |
| Frequency | 0 – 2KHz/20KHz/200KHz |
| Accuracy | ± 0.5% |
| Duty Cycle | 0 – 99.9% |
| Accuracy | ± 0.1% |
| Diode Test, Logic Test and Audible Continuity Test | |


| | |
|---|---|
| Fully Protected DMM | |
| 1200V DC/AC RMS Protection in Voltage Ranges | |
| 20A DC/AC RMS Protection in Ampere Ranges | |
| 600V DC/AC RMS Protection in Resistance, Capacitance, Frequency, Continuity and Diode Test Range | |
| Surge Protection of 8kV peak IEC61010 | |
| "O" Ring Seal Body | |
| IP-67 Protection | |
| Data Hold to freeze displayed reading | |
| Relative Measuring facility | |
| Auto Power Off | |
| Display | 3-¾ Digits 4000 Counts Backlit LCD |
| DC Voltage | 0 - 400mV/4V/40V/400V/1000V |
| Accuracy | ± 0.5% |
| AC Voltage | 0 -400mV/4V/40V/400V/1000V |
| Accuracy | ± 1.2% |
| DC Current | 0 – 400uA/4000uA/40mA/400mA/20A |
| Accuracy | ± 1.0% |
| DC Current | 0 – 400uA/4000uA/40mA/400mA/20A |
| Accuracy | ± 1.5% |
| Resistance | 0 - 400∧/4k∧/40K∧/400k∧/4M∧/40M∧ |
| Accuracy | ± 1.0% |
| Capacitance | 0 – 4nF/40nF400nF/4uF/40uF/200uF |
| Accuracy | ± 3.0% |
| Frequency | 0 – 9.999Hz/99.99Hz/999.9Hz/9.999KHz/99.99kHz/999.9kHz/9.999MHz |
| Accuracy | ± 1.2% |
| Duty Cycle | 0.1% - 99.9% |
| Accuracy | ± 1.2% |
| Diode Test and Audible Continuity Test | |
| Confirms to CAT-III 1000V, CAT IV 600V, EN61010-1, CE. | |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|---|
| Safest Instrument with full protection |
| Overload protection up to 1200V DC /AC RMS in the AC/DC Voltage range. |
| Overload protection up to 20A DC/AC RMS by fast blow fuse in the AC/DC Current range. |
| Overload protection up to 600V DC / AC RMS in the capacitance,Frequency,Temperature,Resistance, Continuity and Diode Test Range (For METRASAFE 13 & METRASAFE 14) |
| Overload protection up to 1000V DC / AC RMS in the capacitance, Frequency, Temperature, Resistance, Continuity and Diode Test Range (For METRASAFE 15, METRASAFE 16 & METRASAFE 18) |

| | |
|---|---|
| Fully Protected DMM | |
| 1200V DC/AC RMS Protection in Voltage Ranges | |
| 20A DC/AC RMS Protection in Ampere Ranges | |
| 600V DC/AC RMS Protection in Resistance, Capacitance, Temperature, Frequency, Diode Test and Continuity Test Range | |
| Surge Protection of 8kV peak IEC61010 | |
| "O" Ring Seal Body | |
| IP-67 Protection | |
| Data Hold to freeze displayed reading | |
| Relative Measuring facility | |
| Auto Power Off | |

| | |
|---|---|
| Display | 3-¾ digits 3999 Counts Backlit LCD |
| DC Voltage | 0 - 400mV/4V/40V/400V/1000V |
| Accuracy | ± 0.5% |
| AC Voltage | 0 – 400mV/4V/40V/400V/1000V |
| Accuracy | ± 1.2% |
| DC Current | 0 – 400uA/4000uA/40mA/400mA/20A |
| Accuracy | ± 1.0% |
| AC Current | 0 – 400uA/4000uA/40mA/400mA/20A |
| Accuracy | ± 1.5% |
| Resistance | 0 - 400∧/4K∧/40K∧/400K∧/4M∧/40M∧ |
| Accuracy | ± 1.0% |
| Capacitance | 0 - 4nF/40nF/400nF/4uF/40uF/200uF |
| Accuracy | ± 3% |
| Frequency | 0 – 9.999Hz/99.99Hz/999.9Hz/9.999kHz/ 99.99kHz/999.9kHz/9.999MHz |
| Accuracy | ± 1.2% |
| Duty Cycle | 0.1% ~ 99.9% |
| Accuracy | ± 1.2% |
| Temperature | -20°C to -760°C/-4°F to +1400°F |
| Accuracy | ± 3% |
| Diode Test&Audible Continuity Test | |
| Confirms to CAT-III 1000V, CAT IV 600V, EN61010-1, CE. | |


| | |
|---|---|
| Fully Protected DMM | |
| 1200V DC/AC RMS Protection in Voltage Ranges | |
| 20A DC/AC RMS Protection in Ampere Ranges | |
| 600V DC/AC RMS Protection in Resistance, Capacitance, Frequency, Temperature, Continuity and Diode Test Ranges | |
| Surge Protection of 8kV Peak IEC61010 | |
| "O" Ring Seal Body | |
| T-RMS measurement, Peak Hold, Relative Measuring | |
| MAX /MIN Recording | |
| Auto Power Off | |
| Display | 3-¾ Digits 4000 Counts Backlit LCD with Analog Bargraph |
| DC Voltage | 0 – 400mV/4V/40V/400V/1000V |
| Accuracy | ± 0.5% |
| AC Voltage | 0 – 400mV/4V/40V/400V/1000V T-RMS |
| Accuracy | ± 0.8% |
| DC Current | 0 - 400uA/4000uA/40mA/400mA/20A |
| Accuracy | ± 1.2% |
| AC Current | 0 – 400uA/4000uA/40mA/400mA/20A T-RMS |
| Accuracy | ± 1.5% |
| Capacitance | 0 – 4nF/40nF/400nF/4uF/40uF/400uF/ 4mF/40mF |
| Accuracy | ± 3% |
| Frequency | 0 – 4kHz/40KHz/400KHz/40MHz |
| Accuracy | ± 1.2% |
| Temperature | -20°C to +760°C /-4°F to +1400°F |
| Accuracy | ± 3% |
| Diode Test and Audible Continuity Test | |
| Confirms to CAT-III 1000V, CAT-IV 600V, EN61010-1, CE | |


| | |
|---|---|
| Fully Protected DMM | |
| 1200V DC/AC RMS Protection in Voltage Ranges | |
| 20A DC/AC RMS Protection in Ampere Ranges | |
| 600V DC/AC RMS Protection in Resistance, Capacitance, Frequency, Temperature, Continuity and Diode Test Ranges | |
| Surge Protection of 8kV Peak IEC61010 | |
| "O" Ring Seal Body | |
| IP-67 Protection | |
| Peak Hold | |
| Max /MIN Recording | |
| Auto Power Off | |
| Display | 3-¾ Digits 4000 Counts Backlit LCD with Analogue Bargraph |
| DC Voltage | 0 – 400mV/4V/40V/400V/1000V |
| Accuracy | ± 0.5% |
| AC Voltage | 0 – 400mV/4V/40V/400V/1000V |
| Accuracy | ± 0.8% |
| DC Current | 0 - 400uA /4000uA/40mA/400mA/20A |
| Accuracy | ± 1.2% |
| AC Current | 0 - 400uA/4000uA/40mA/400mA/20A |
| Accuracy | ± 1.5% |
| Resistance | 0 - 400∧/4k∧/40K∧/400K∧/4M∧/40M∧ |
| Accuracy | ± 0.8% |
| Capacitance | 0 - 4nF/40nF/400nF/4uF/40uF/400uF/4 mF/40mF |
| Accuracy | ± 3% |
| Frequency | 0 – 4KHz/40KHz/400KHz/40MHz |
| Accuracy | ± 1.2% |
| Temperature | -20°C to +760°C /-4°F to 1400°F |
| Accuracy | ± 3% |
| Diode Test and Audible Continuity Test | |
| Confirm to CAT-III 1000V, CAT IV 600V,EN61010-1,CE | |


| | |
|---|---|
| Fully Protected DMM | |
| 1200V DC/AC RMS Protection in Voltage Ranges. | |
| 20A DC/AC RMS Protection in Ampere Ranges. | |
| 1000V DC/AC RMS Protection in Resistance, Capacitance, Frequency, Temperature, IR Temp. measurement, Diode and Continuity Test. | |
| "O" Ring Seal Body | |
| IP-67 Protection | |
| Surge Protection of 8kV peak IEC-61010 | |
| T-RMS measurement | |
| Relative Measurement | |
| Data Hold and Peak Hold Facility | |
| MAX /MIN recording facility. | |
| Auto Power Off | |
| Display | 4-¾ Digits 40,000 Count Backlit LCD with Analog Bargraph |
| DC Voltage | 0 - 400mV/4V/40V/400V/1000V |
| Accuracy | ± 0.06% |
| AC Voltage | 0 – 400mV/4V/40V/400V/1000V T-RMS |
| Accuracy | ± 1.0% |
| DC Current | 0 – 400uA/4000uA/40mA/400mA/10A |
| Accuracy | ± 1.0% |
| AC Current | 0 – 400uA/4000uA/40mA/400mA/10A T-RMS |
| Accuracy | ± 1.5% |
| Resistance | 0 - 400∧/4K∧/40K∧/400K∧/4M∧/40M∧ |

| | |
|---|---|
| Accuracy | ± 0.3% |
| Capacitance | 0 - 40nF/400nF/4uF/40uF/400uF/4000uF/40mF |
| Accuracy | ± 3.5% |
| Frequency | 40Hz/400Hz/4KHz/40KHz/400KHz/4MHz/40MHz/100MHz |
| Accuracy | ± 0.1% |
| Duty Cycle | 0.1 to 99.90% |
| Accuracy | ± 1.2% |
| Temperature | -58°F to 1832°F /-50°C to 1000°C |
| Infra Red Non Contact Temperature measuring Range : -30°C ~ -500°C /-22°F to 1022°F (Optional) | |
| Process Display 4-20mA = 0 - 100% | |
| Diode Test and Audible Continuity Test | |
| Confirms to CAT-III 1000V, CAT-IV 600V, EN61010-I,CE. | |

| |
|---|
| Fully Protected DMM |
| 1200V DC/AC RMS Protectoin in Voltage Ranges |
| 20A DC/AC RMS Protection in Ampere Ranges |
| 1000V DC/AC RMS Protection in Resistance, Capacitance, Frequency, Temperature, Diode and Continuity Test |
| Surge Protection 8kV Peak IEC-61010 |
| "O" Ring Seal Body |
| IP-67 Protection |
| Wireless USB PC Interface |
| T-RMS Measurements |
| Peak Hold, Relative Measuring Facility, |
| MAX /MIN Recording, Auto Power Off |

| | |
|---|---|
| Display | 4-¾ Digits 40,000 Counts Backlit LCD |
| DC Voltage | 0 - 400mV/4V/40V/400V/1000V |
| Accuracy | ± 0.06% |
| AC Voltage | 0 – 400mV/4V/40V/400V/1000V T-RMS |
| Accuracy | ± 1.0% |
| DC Current | 0 - 400µA/4000µA/40mA/400mA/10A |
| Accuracy | ± 1.0% |
| AC Current | 0 - 400µA/4000µA/40mA/400mA/10A T-RMS |
| Accuracy | ± 1.0% |
| Resistance | 0 - 400Ω/4KΩ/40KΩ/400KΩ/4MΩ/40MΩ |
| Accuracy | ± 0.3% |
| Capacitance | 0 – 40nF/400nF/4µF/40µF/400µF/4000µF/40mF |
| Accuracy | ± 3.5% |
| Frequency | 40Hz/400Hz/4KHz/40KHz/400KHz/4MHz/40MHz/100MHz |
| Accuracy | ± 0.1% |
| Duty Cycle | 0.1% to 99.90% |
| Accuracy | ± 1.2% |
| Temperature | -58°F to 2192°F /-50°C to 1200°C |
| Accuracy | ± 1.0% |
| Diode Test and Audible Continuity Test Facility | |
| Confirms to EN61010-1, CAT-III 1000V, CAT-IV 600V, UL 61010B-2-031 | |


## Accessories For Digital Multimeters

| | |
|---|---|
| Can be used with any Digital Multimeter with 200mV /400mV /600mV DC range | |
| Can measure AC Current up to 200A. | |
| Provides output of 1mV/A | |
| Sensitivity | 1A/mV AC |
| Accuracy | ±2% |
| Clamp Jaw Size | 16mm Dia. |


| |
|---|
| Clamp Jaw Size - 30mm |
| Low Battery Indication |
| Provides output of 1mV/A for 600A Range, to be used with any DMM with 400mV or 600mV range |
| Also provides 0.1mV/A output for 1000A range to be used with 600mV range |
| Can be used to measure AC/DC Current up to 1000A. |
| Can be used with any Digital Multimeter with 200m / 400m /600m /2 /4 /6V DC range. |
| Confirms to CAT-II 600V of the EN-61010-1 and EN-61010-2-032 Standards |


| | |
|---|---|
| Measures temperature in the range of -30 to 550°C | |
| Measures in Fahrenheit scale also | |
| Distance to Sighting Ratio | 8:1 |
| Emissivity | 0.95 Fixed |
| Auto Power Off | |
| Low Battery Indication | |
| Provides an output for 1mV/Degree C. | |
| Can be used with any Digital Multimeter with 200m /400m /600m /2 /4 /6 V DC range. | |
| Spectral Response | 6 to 14um (wavelength) |
| Has Laser Pointer | |


| | |
|---|---|
| High Voltage Probe to measure AC/DC High Voltage | |
| Measures upto 40kV DC and 28kV AC | |
| Accuracy | ± 1% |
| Cable Length 1m | |

# Digital Non Contact Infra Red Thermometer

| |
|---|
| Gun type Infra Red Thermometer |
| Laser pointer Indication to indicate the target under test. |
| Data Hold & Auto Power Off |
| MAX/Min Temperature Display |
| Backlit LCD Display |
| Trigger Lock |
| Over range Indication |

| | |
|---|---|
| Measuring Range | -30°C to 260°C /-22°F to 500°F |
| Resolution | 0.1°C /°F |
| Accuracy | ± 2% |
| Distance to Sighting | 8:1 |
| Emissivity | 0.95 fixed Value |
| Special Response | 6 ~ 14um |

| |
|---|
| Gun type Infra Red Thermometer |
| Anti-Slip Splash proof body |
| Dual Laser sighting to indicate the diameter of area whose temperature is being measured |
| Automatic Data Hold |
| MAX Temperature record |
| Set High and Low alarm |
| Fast Response Time |
| Selectable °C /°F Scales |
| Trigger Lock facility for continuous measurement |
| Backlight LCD Display |

| | |
|---|---|
| Temperature Range | -50°C to 600°C (-58°F to 1112°F) |
| Distance to sighting | 12:1 |
| Display Resolution | 0.1°C/°F |
| Accuracy | ± 1.0% |
| Response Time | 150ms |
| Spectral Response | 8 ~ 14um |
| Emissivity | Digitally Adjustable from 0.10 to 1.0 |
| Safety | "CE" Comply with EMC |

| |
|---|
| Gun type Infra Red Thermometer |
| Anti-Slip Splash Proof body |
| Dual Laser sighting to indicate the diameter of area whose temperature is being measured |
| Fast Response 150ms |
| Automatic Data Hold |
| Max record facility |
| Hi – Low Alarm facility |
| Trigger Lock facility for continuous temperature measurement |
| Auto Power Off |
| Selectable °C /°F Scales |
| Over Range /Low Battery Indication |

| | |
|---|---|
| Display | 4 Digits White Backlit LCD |
| Range | -50°C to 800°C /-58°F to 1472°F |

| | |
|---|---|
| Accuracy | ± 1.0% |
| Resolution | 0.1°C /0.1°F |
| Distance to Sighting | 12:1 |
| Spectral Response | 8 ~ 14um |
| Emissivity | Digitally adjustable from 0.10 to 1.0 |
| Safety | "CE" Comply with EMC |

| |
|---|
| Gun Type Infra Red Thermometer |
| Laser Pointer indication to Indicate the target under test |
| Data Hold Facility |
| Auto Power Off |
| Max / Min record facility |
| Hi – Lo Alarm setting facility |
| Selectable °C /°F Scales |
| Over Range /Low Battery Indication |

| | |
|---|---|
| Display | 3 ½ Digits backlit Liquid Crystal Display |
| Range | -30°C to 550°C /-22°F to 1022°F |
| Resolution | 0.5/1°C, 1°F |
| Accuracy | ± 2% |
| Sighting | 1-beam laser marker < 1mW (Class 2) |

| |
|---|
| Emissivity: Adjustable from 0.1 to 1.0 |
| Spectral Response: 6 to 14um nominal |

| |
|---|
| Gun type Infra Red Thermometer |
| Anti-Slip Splash proof body |
| Dual Laser pointer Indication to indicate the diameter of the area whose temperature in being measured |
| Fast Response Time: 150mS |
| Automatic Data Hold |
| Max Record Facility |
| Hi-Lo Alarm Facility |
| Trigger Lock facility for continuous temperature measurement without pressing the trigger |
| Auto Power Off |
| Selectable °C /°F Scales |
| Over range /Low Battery Indication |

| | |
|---|---|
| Display | 4 Digit White Backlit LCD |
| Range | -50°C to 1000°C /-58°F to 1832°F |
| Resolution | 0.1°C /0.1°F |
| Accuracy | ± 1.0% |
| Distance to Sighting | 20:1 |
| Emissivity | Digitally Adjustable from 0.10 – 1.00 |
| Spectral Response | 8 – 14um |
| Safety | "CE" Comply with EMC |

| |
|---|
| Gun type Infra Red Thermometer |
| Anti-Slip Splash Proof Body |
| Laser Pointer Indication to Indicate the target under test |

| | |
|---|---|
| Automatic Data Hold& Power Off facility | |
| Selectable °C /°F Scales | |
| Over range /Low Battery Indication | |
| Display | 3 ½ Digits 1999 Counts LCD with Backlit |
| Range | -50°C to 1000°C /-58°F to 1832°F |
| Resolution | 0.1°C /°F (up to 200°) else 1°C/°F |
| Accuracy | ± 1.5% |
| Distance to Sighting | 50:1 |
| Response Time | Less than 1 Sec |
| Emissivity | 0.95 fixed value |
| Spectral Response | 8 ~ 14um |
| Safety | "CE" Comply with EMC |

| | |
|---|---|
| Selectable °C /°F Scales | |
| IR Measurement Range | -50°C to 1300°C /-58°F to 2372°F |
| Resolution | 0.1°C /°F |
| Emissivity | Digitally Adjustable from 0.10 to 1.0 |
| Distance to Sighting Ratio | 30:1 |
| TK Measurement Range | -50°C to 1370°C /-58°F to 2498°F |
| Resolution | 0.1°C /°F |
| Accuracy | ± 1.5% |
| Provides analogue output of 1mV /°F for control action and data recording | |
| Mains and Battery Operated | |
| Facility for Offline Data Recording up to 20 Readings | |
| Safety | "CE" Comply with EMC |

| | |
|---|---|
| Wireless USB Interface (RF 433MHz) for PC Interface | |
| Unique flat surface, Modern Housing desing | |
| Built in laser Pointer | |
| With built in contact type thermometer for K-type temperature sensor | |
| Automatically captures emissivity of the target | |
| Max /Min /Dif /Avg recording facility | |
| High – Low Alarm Setting Facility | |
| Auto Data Hold facility | |
| Auto Power Off facility | |
| Low Battery Indication | |
| Trigger lock facility to continuous measurement without pressing the trigger | |
| Tripod Stand provided to place the meter for continuous measurement | |
| Selectable °C /°F Scales | |
| IR Measurement Range | -50°C to 1050°C /-58°F to 1922°F |
| Distance to Sight | 30:1 |
| Resolution | 0.1°C /°F |
| Accuracy | ± 1.5% |
| Emissivity | Digitally Adjustable from 0.10 to 1.0 |
| TK Measurement Range | -50°C to 1370°C /-58°F to 2498°F |
| Resolution | 0.1°C /°F |
| Accuracy | ± 1.5% |
| Safety | "CE" Comply with EMC |

| | |
|---|---|
| Gun type Infra Red Thermometer with USB PC Interface | |
| Anti-Slip Splash proof body | |
| Dual Laser sighting for indicating the diameter of target whose temperature is being measured | |
| Unique flat surface, modern housing design | |
| With built in contact type thermometer for K-type temperature sensor | |
| MAX/MIN/AVG/DIF Temperature | |
| Automatic Data Hold | |
| Trigger Lock | |
| High & Low Alarm setting facility | |
| Selectable °C /°F Scales | |
| Transmit data to PC with USB | |
| Data Storage up to 100 Data points | |
| Display: | Backlit LCD Display |
| TK Temperature Range | -50°C to 1370°C (-58°F to 2498°F) |
| Accuracy | ± 1.5% |
| Resolution | 0.1°C /°F |
| IR Temperature Range | -50°C to 1800°C /-58°F to 3272°F |
| Resolution | 0.1°C /°F |
| Accuracy | ± 1.0% |
| Response Time | 150ms |
| Spectral Response | 8 ~ 14um |
| Distance to Sighting Ratio | 50:1 |
| Emissivity | Digitally adjustable from 0.10 to 1.0 |

| | |
|---|---|
| Unique flat surface, modern housing design | |
| Built in Laser Pointer | |
| With built in contact type thermometer for K-type temperature sensor | |
| Automatically captures emissivity of the target | |
| Max /Min /Dif /Avg recording facility | |
| High Low Alarm Setting facility | |
| Data Hold facility | |
| Auto Power Off facility | |
| Low Battery Indication | |
| Trigger Lock facility to continuous measurement without pressing the trigger | |
| Tripod Stand provided to place the meter for continuous measurement | |

| | |
|---|---|
| Gun type Infra Red Thermometer with USB PC Interface | |
| Anti-Slip Splash proof body | |
| Dual Laser sighting for indicating the diameter of target whose temperature is being measured | |
| Unique flat surface, modern housing design | |
| With built in contact type thermometer for K-type temperature sensor | |
| MAX/MIN/AVG/DIF Temperature | |
| Automatic Data Hold | |
| Trigger Lock | |
| High & Low Alarm setting facility | |
| Selectable °C /°F Scales | |
| Transmit data to PC with USB | |
| Data Storage up to 100 Data points | |

Technical Specifications & Appearance are subject to change without prior notice.

| | |
|---|---|
| Display: | Backlit LCD Display |
| TK Temperature Range | -50°C to 1370°C (-58°F to 2498°F) |
| Accuracy | ± 1.5% |
| Resolution | 0.1°C /°F |
| IR Temperature Range | 50°C to 2200°C /-58°F to 3992°F |
| Resolution | 0.1°C /°F |
| Accuracy | ± 1.0% |
| Response Time | 150ms |
| Spectral Response | 8 ~ 14um |
| Distance to Sighting Ratio | 50:1 |
| Emissivity | Digitally adjustable from 0.10 to 1.0 |

| | |
|---|---|
| Gun type Infra Red Thermometer | |
| Telescopic Sighting | |
| Data Hold Facility | |
| Hi-Lo Alarm Setting Facility | |
| Auto Power Off | |
| Selectable °C /°F Scales | |
| Over Range /Low Battery Indication | |
| Display | 4 digits Backlit LCD |
| Measuring Range | 500 to 3000°C |
| Accuracy | 1% |
| Response Time | 200mS |
| Resolution | 1°C to 1°F |
| Emissivity | Adjustable 0.10 ~ 1.00 |
| Distance to Sighting Ratio | 120:1 |
| Max /Min /Avg Temperature recording | |

## Digital Phase Angle Meter

| | |
|---|---|
| Size Available | 96 x 96 'or' 96 x 48 mm sq |
| Display | 3-1/2 Digits Red LED Display |
| Range | -180.0° to + 180.0° |
| Input | 300V AC & 5A AC |
| Voltage to Voltage & Voltage to Current options available | |
| Auxiliary Power Supply | 230 /110V AC 50Hz (Any One) |


## Digital Power Analyzer

| | |
|---|---|
| Microprocessor Based instrument | |
| Measures Single Phase Voltage, Current, Watt and Frequency | |
| Suitable for direct line applications | |
| Can also be used in conjunction with a CT having 1A or 5A CT secondary | |
| Display | 4 Digit LED Display |
| Minimum 10% of full load current is required for proper operation | |
| Accuracy | 1% |


## Digital Power Factor Meter

| |
|---|
| Microprocessor based 3 phase and single phase Power Factor measurement. |
| Available in 96 * 96 mm Bezel Size for three phase and single phase meters and 96 * 48mm for single phase meters. |
| Meters can be factory set for different CT/PT ratios to give a direct reading. |
| Three phase meters display individual phase values and also system values. |
| Available for 415V(LT) and 110 V(HT) systems and for1 Amp and 5 Amp CT secondary. |
| Auxiliary Power Supply: 230V AC 50Hz /110V AC 50Hz |
| In the Model number Y could be 3 for 3 phase and 1 for single phase and X could be 2 for 2 wire loads, 3 for 3 wire loads and 4 for 4 wire loads |


## Digital Pressure Meter

| | |
|---|---|
| Backlit LCD Dual Display | |
| Low Battery Indication | |
| Under Range and Over Range Indication | |
| Fast Response Time | |
| Battery Operated. | |
| Measuring Range | 0 - 5 PSI |
| It measures in various units like inHzO, PSI, bar, mbar, kPa, inHg, mmHg, OZinz, ftH2O, cmHzO, kgcmz. | |
| With RS-232 PC Interface Facility | |
| High Accuracy of 0.3% | |


## Digital Process Meter

| | |
|---|---|
| Measures and sources various parameters | |
| Display | 3-3/4 Digits 3999 Counts Backlit LCD |
| Confirms to IEC 61010 | |
| Data Hold to freeze the displayed data | |
| **Measures** | |
| DC Voltage | 0 - 4 /40 /400V |
| Accuracy | ±0.2% |
| DC milli Volt | 0 - 40m /400mV |
| Accuracy | ±0.2% |
| AC Voltage | 0 - 400m /4 /40 /400V |
| Accuracy | ±0.5% |
| DC Current | 0 - 40m /400mA |
| Accuracy | ±0.2% |
| AC Current | 0 - 40m /400mA |
| Accuracy | ±0.5% |
| Resistance | 0 - 400/4k/40k/400k/ 4M/40MΛ |
| Accuracy | ±0.2% |
| Frequency | 0 - 50/500/5k/50k/ 100kHz |
| Accuracy | ±0.1% |

| | |
|---|---|
| Temperature through PT-100 Sensor | -200°C to 700°C |
| Accuracy | ±0.5% |
| Temperature through Cu-50 Sensor | -50°C to 150°C |
| Accuracy | ±0.5% |
| Temperature through R type Sensor | -40°C to 1760°C |
| Accuracy | ±0.5% |
| Temperature through S type Sensor | -20°C to 1760°C |
| Accuracy | ±0.5% |
| Temperature through B type Sensor | 400°C to 1800°C |
| Accuracy | ±0.5% |
| Temperature through E type Sensor | -200°C to 500°C |
| Accuracy | ±0.5% |
| Temperature through K type Sensor | -200°C to 950°C Accuracy : ±0.5% |
| Temperature through J type Sensor | -200°C to 700°C Accuracy : ±0.5% |
| Temperature through T type Sensor | -200°C to 400°C Accuracy : ±0.5% |
| Temperature through N type Sensor | -200°C to 1000°C Accuracy : ±0.5% |
| Diode Test and Continuity Test Facility | |
| **Sources** | |
| Resistance | 0 to 400 ∧ Accuracy : ±0.5% |
| DC milli Volt | -10 to 100mV Accuracy : ±0.5% |
| DC Voltage | -0.5 to 5.5V Accuracy : ±0.2% |
| Frequency | 0 - 100/1k/10kHz Accuracy : ±0.2% |
| XMT | 0 to -20mA Accuracy : ±0.2% |
| DC Milli Ampere | 0 to 22mA Accuracy : ±0.2% |
| Temperature output for Pt-100 Sensor | -200°C to 850°C Accuracy : ±0.5% |
| Temperature output for Cu-50 Sensor | -50°C to 150°C Accuracy : ±0.5% |
| Temperature output for R type Sensor | -40°C to 1760°C Accuracy : ±0.5% |
| Temperature output for S type Sensor | -20°C to 1760°C Accuracy : ±0.5% |
| Temperature output for B type Sensor | -40°C to 1760°C Accuracy : ±0.5% |
| Temperature output for E type Sensor | -200°C to 1000°C Accuracy : ±0.5% |
| Temperature output for K type Sensor | -200°C to 1370°C Accuracy : ±0.5% |
| Temperature output for J type Sensor | -200°C to 700°C Accuracy : ±0.5% |
| Temperature output for T type Sensor | -200°C to 400°C Accuracy : ±0.5% |
| Temperature output for N type Sensor | -200°C to 1300°C Accuracy : ±0.5% |

## Digital Sound Level Meter

| | |
|---|---|
| Can be used for both audible sound and machine noise | |
| Can be used for both A and C weighting | |
| Max Hold and Data Hold facility | |
| Provides Analog AC/DC outputs for the measurement-made for connection to an analyzer or recorder | |
| AC output of 0.65V rms at Full Scale (upper limit ofeach level) | |
| DC output of 10mV/dB | |
| Built-in Self-Calibration check facility at 94dB | |
| Measures in both Low range of 30 to 100dB and hi range of 60 to 130dB | |
| Accuracy | ±1.5dB |
| Resolution | 0.1dB |
| Dynamic Range 65dB | |
| Frequency Range | 31.5Hz ~ 8kHz |
| Has Fast and Slow response facility | |
| Meets IEC651 type 2, ANSI S1.4 type 2 standards | |

| | |
|---|---|
| Can be used for both audible sound and machine noise | |
| Can be used for both A and C weighting | |
| Max Hold facility | |
| Measures in both Low range of 30 to 100dB and hi rangeof 60 to 130dB | |
| Range | 30 - 130 dB |
| Accuracy | ±1.5dB |
| Resolution | 0.1dB |
| Frequency Response | 31.5Hz to 8kHz |
| Has Fast and Slow response facility | |
| Meets IEC651 type 2, ANSI S1.4 type 2 standards | |

## Digital SMT Component Tester

| | |
|---|---|
| Auto Ranging, Auto Selection SMT Component tester | |
| Display | 6000 Counts LCD Display |
| Overload and Low Battery Indication | |
| Auto Power Off | |
| DC Voltage | 0 – 600m /6 /50V DC |
| Accuracy | ±0.8% |
| AC Voltage | 0 – 600m /6 /50V AC |
| Accuracy | ±1.0% |
| Resistance | 0 – 600 /6k /60k /600k /6M/ 60M∧ |
| Accuracy | ±0.8% |
| Capacitance | 0 – 6n /60n /600n /6u /60u /600u /6m /60mF |
| Accuracy | ±3.0% |
| Diode & Continuity Test | |
| Provided with extended probes for discrete component testing. | |

| | |
|---|---|
| Measures both audible sound and machine noise | |
| Has both A and C Weighting | |
| USB PC Interface with software | |
| Analogue output of AC 1Vrms and DC 10mV/dB for connection to frequency analyzer or X-Y shaft recorder | |
| Max /Min Data recording | |
| Data Hold to freeze displayed data | |
| Display | 4 Digits Large LCD with analogue bargraph |
| Range | 30 - 130 dB |
| Resolution | 0.1dB |
| Dynamic Range | 50dB |
| Accuracy | ±1.4dB |
| Has Lo, Med. and HI measuring modes | |
| Time Weighting | FAST and SLOW |
| Frequency Range | 31.5Hz to 8kHz |
| Confirms to IEC61672-1 CLASS2 for Sound Level Meters | |

# Digital Storage Oscilloscope

| | |
|---|---|
| 25MHz Bandwidth | |
| 7 Inch Color TFT-LCD Display, 480*234 | |
| 500MSa/Sec Sampling Rate | |
| Channels | 2CH+1EXT |
| Memory Depth | 32kpts |
| 6 digits hardware Frequency Counter, real time counting display | |
| Support SCPI programming command control | |
| Interface | USB Device ,USB Host, RS-232, Pass/Fail |

| | |
|---|---|
| Unique digital filter and data recorder function | |
| Embedded 12 languages, online help, one key storing a nd one key printing | |
| Vertical Sensitivity | 2mV ~ 10V/Div 8 |
| Bit Vertical Resolution | |
| Trigger Source | CH1, CH2, Ext, Ext/5, AC Line |
| Trigger Type | Edge, Pulse, Video, Slope, Alternative |
| Math Operation | +, -, x, /, FFT |

| | |
|---|---|
| 50MHz Digital Storage Oscilloscope | |
| 7 Inch Color TFT-LCD Display, 480*234 | |
| 500MSa/Sec Sampling Rate | |
| Channels | 2CH+1EXT |
| Memory Depth | 32kpts |
| 6 digits hardware frequency counter, real time counting display | |
| Support SCPI programming command control | |
| Interface | USB Device ,USB Host, RS-232, Pass/Fail |

| | |
|---|---|
| Unique digital filter and data recorder function | |
| Embedded 12 languages, online help, one key storing and one key printing | |
| Vertical Sensitivity | 2mV ~ 10V/Div 8 |
| Bit Vertical Resolution | |
| Trigger Source | CH1,CH2, Ext, Ext/5, AC Line |
| Trigger Type: Edge, Pulse, Video, Slope, Alternative | |
| Math Operation | +, -, x, /, FFT |

| | |
|---|---|
| 70MHz Digital Storage Oscilloscope | |
| 7 Inch Color TFT-LCD Display, 480*234 | |
| 1GSa/Sec Sampling Rate | |
| Channels | 2CH+1EXT |
| Memory Depth | 2Mpts |
| 6 digits hardware frequency counter, real time counting display | |
| Support SCPI programming command control | |
| Interface | USB Device, USB Host, RS-232, Pass/Fail |

| | |
|---|---|
| Unique digital filter and data recorder function | |
| Embedded 12 languages, online help, one key storing and one key printing | |
| Vertical Sensitivity | 2mV ~ 10V/Div 8 |
| Bit Vertical Resolution | |
| Trigger Source | CH1, CH2, Ext, Ext/5, AC Line |
| Trigger Type: Edge, Pulse, Video, Slope, Alternative | |
| Math Operation | +, -, x, /, FFT |

| | |
|---|---|
| 100MHz Digital Storage Oscilloscope | |
| 7 Inch Color TFT-LCD Display, 480*234 | |
| 1GSa/Sec Sampling Rate | |
| Channels | 2CH+1EXT |
| Memory Depth | 2Mpts |
| 6 digits hardware frequency counter, real time counting display | |
| Support SCPI programming command control | |
| Interface | USB Device, USB Host, RS-232, Pass/Fail |

| | |
|---|---|
| Unique digital filter and data recorder function | |
| Embedded 12 languages, online help, one key storing and one key printing | |
| Vertical Sensitivity | 2mV ~ 10V/Div 8 |
| Bit Vertical Resolution | |
| Trigger Source | CH1,CH2,Ext,Ext/5,AC Line |
| Trigger Type: Edge, Pulse, Video, Slope, Alternative | |
| Math Operation | +, -, x, /, FFT |

| | |
|---|---|
| 150MHz Digital Storage Oscilloscope | |
| 7 Inch Color TFT-LCD Display, 480*234 | |
| 1GSa/Sec Sampling Rate | |
| Channels | 2CH+1EXT |
| Memory Depth | 2Mpts |
| 6 digits hardware frequency counter, real time counting display | |
| Support SCPI programming command control | |
| Interface | USB Device, USB Host, RS-232, Pass/Fail |

| | |
|---|---|
| Unique digital filter and data recorder function | |
| Embedded 12 languages, online help, one key storing and one key printing | |
| Vertical Sensitivity | 2mV ~ 10V/Div 8 |
| Bit Vertical Resolution | |
| Trigger Source | CH1,CH2,Ext,Ext/5,AC Line |
| Trigger Type: Edge, Pulse, Video, Slope, Alternative | |
| Math Operation | +, -, x, /, FFT |

| | |
|---|---|
| 200MHz Digital Storage Oscilloscope | |
| 7 Inch Color TFT-LCD Display, 480*234 | |
| 1GSa/Sec Sampling Rate | |
| Channels | 2CH+1EXT |
| Memory Depth | 2Mpts |
| 6 digits hardware frequency counter, real time counting display | |
| Support SCPI programming command control | |
| Interface | USB Device, USB Host, RS-232, Pass/Fail |

| | |
|---|---|
| Unique digital filter and data recorder function | |
| Embedded 12 languages, online help, one key storing and one key printing | |
| Vertical Sensitivity 2mV ~ 10V/Div 8 | |
| Bit Vertical Resolution | |
| Trigger Source | CH1, CH2, Ext, Ext/5, AC Line |
| Trigger Type: Edge, Pulse, Video, Slope, Alternative | |
| Math Operation +, -, x, /, FFT | |

## Accessories to Digital Storage Oscilloscope

| | |
|---|---|
| High Voltage Probe to measure AC/DC High Voltage | |
| Measures upto 30kV DC and 20kV AC | |
| Accuracy | ± 1% |
| Cable Length 1m | |

## Digital Stroboscope

| | |
|---|---|
| Exclusive One Chip Micro Controller LSI Circuit | |
| Crystal Time base to offer high accuracy | |
| Wide Measuring Range | |
| Display | LCD With annunciators |
| Range | 50 to 12,000 FPM |
| Resolution | 0.1 FPM up to 1000FPM else 1FPM |
| Accuracy | ±0.05% |
| Sampling Rate | 0.4 secs |
| Auxiliary Power Supply | 230V AC 50Hz |

| | |
|---|---|
| Exclusive One Chip Micro Controller LSI Circuit | |
| Crystal Time base to offer high accuracy | |
| Wide Measuring Range | |
| Display | LCD With annunciators |
| Range | 50 to 40,000 FPM |
| Resolution | 0.1 FPM up to 1000FPM else 1FPM |
| Accuracy | ±0.05% |
| Sampling Rate | 0.4 secs |
| Auxiliary Power Supply | 230V AC 50Hz |

## Digital Tachometer

| | |
|---|---|
| Last Value, Max Value and Min Value memory | |
| Exclusive One-chip microcomputer LSI Circuit | |
| Quartz Crystal Time Base | |
| Display | 5 Digits LCD |
| Range | 60 to 49,999 RPM |
| Surface Speed 6 to 5000 m/min. | |
| Resolution | 0.1RPM up to 1000 RPM thereafter 1 RPM |
| | 0.01m/min up to 100m/min thereafter 0.1m/min |
| Accuracy | ±0.05% |
| Complete with carrying case, RPM Cone Adaptor, RPM Funel Adaptor, Surface speed test wheel and operation manual | |

| | |
|---|---|
| Provides fast and accurate Non-contact RPM and surface speed measurements of rotating objects | |
| Uses the CPU technique, photoelectrical technique, and junction laser technique for one instrument combined PHOTO TACHOMETER (RPM&REV) | |
| Two test modes: rotation speed mode (unit: RPM) &count mode (unit: REV) | |
| Wide measure range and high resolution Display | |
| | 5 Digital Large Backlit LCD |
| Built in memory recall Max. Min. and Last Value stored | |
| RPM Test Range | 2 to 99,9999 RPM |
| Count Range | 1 to 99,9999 |
| Accuracy | ±0.05% ± 1Digit |
| Resolution | 0.1RPM up to 1000RPM else 1RPM |
| Detecting Distance | 50mm to 500mm |

| | |
|---|---|
| The Digital Tachometer provides fast and accurate Contact and Non-Contact RPM and surface speed measurements of rotating objects. | |
| Wide measure range and high resolution | |
| High visible digital LCD and Backlight display. | |
| 40 reading memories | 10 selectable MAX measurements, 10 selectable MIN measurements, 10 selectable AVG measurements, 10 selectable DATA measurements. |
| Contact Test range | 2 to 20,000RPM |
| Non-Contact Test range | 2 to 99,999RPM |
| Detecting distance | 50mm to 500 mm. |
| 9V Battery Operated | |

## Digital Temperature Controller

| | |
|---|---|
| Microcontroller based Universal Temperature Controller | |
| Can be programmed for J, K or RTD Sensor | |
| User Friendly set up | |
| Has Single Set Point | |
| 3-1/2 Digit RED LED Display | |
| Size | 96 x 96 mm sq |
| For J type: 0 - 600°C,<br>For K type: 0 - 1250°C and<br>For RTD (PT-100) 0 - 400°C | |
| Output | 1NO/NC Relay |
| Auxiliary Power Supply 230V AC 50Hz | |

Technical Specifications & Appearance are subject to change without prior notice

| Flush Mounting type | |
|---|---|
| Sizes | 96 x 96 mm sq 'OR' 72 x 72 mm sq |
| Display | 3-1/2 Digits Seven Segment Red LED display |
| Cold Junction Compensation | Automatic forThermocouple |
| Open Sensor Indication | |
| Sensor Input | J, K, R, S, T/C, PT-100 RTD, V & 4 - 20mA |
| Accuracy | J,K 1%; R,S 0.5%; PT-100 RTD0.2%, mV, V,mA 0.1% |
| Hysterisis Pot | 1 to 10°C for each point for ON - OFF Model |
| Control Action | ON/OFF or Time Proportional |
| Control output (options available) | a. 6A or 20A, 1C/O Relay, 230V. |
| | b. 12V DC pulse output for SSR for each set point |
| Single Set Point | |
| Auxiliary Power Supply | 230V Single Phase AC 50Hz |


| Flush Mounting type | |
|---|---|
| Sizes | 96 x 96 mm sq 'OR' 72 x 72 mm sq |
| Display | 3-1/2 Digits Seven Segment Red LED display |
| Cold Junction Compensation | Automatic forThermocouple |
| Open Sensor Indication | |
| Sensor Input | J, K, R, S, T/C, PT-100 RTD, V & 4 - 20mA |
| Accuracy | J,K 1%; R,S 0.5%; PT-100 RTD0.2%, mV, V,mA 0.1% |
| Hysterisis Pot | 1 to 10°C for each point for ON - OFF Model |
| Control Action | ON/OFF or Time Proportional |
| Control output (options available) | a. 6A or 20A, 1C/O Relay, 230V. |
| | b. 12V DC pulse output for SSR for each set point |
| Dual Set Point | |
| Auxiliary Power Supply | 230V Single Phase AC 50Hz |


## Digital Temperature & Humidity Meter

| Humidity meter with Air and K-type thermocouple thermometer | |
|---|---|
| Humidity and Air temperature measurement by semiconductor sensor | |
| Max and Data Hold facility | |
| Auto Power Off facility | |
| Selectable °C /°F Scales | |
| Low Battery Indication | |
| Display | 3-1/2 Digits 1999 Counts Backlit Dual |
| Semiconductor Sensor Temperature range | 0° to 40°C |

| K type thermometer Temperature Range | -20° to 1000°C /-4° to 1932°F |
|---|---|
| Resolution | 0.1° (up to 200°) else 1° |
| Accuracy | ±3% |
| Relative Humidity Range | 0.1%RH -100%RH |
| Resolution | 0.1%RH |
| Accuracy | ±3.5% |
| Confirms to CE | |

| Humidity meter with Air and Infra Red temperature measurement facility | |
|---|---|
| Humidity and Air temperature measurement by semiconductor probe | |
| Max and Data Hold facility | |
| Auto Power Off facility | |
| Infra Red Thermometer with laser pointer | |
| Selectable °C /°F Scales | |
| Low Battery Indication | |
| Display | 3-1/2 Digits 1999 Digits Dual BacklitExtra Large LCD |
| Semiconductor Sensor Temperature range | -20° to 60°C |
| Accuracy | ±2°C |
| Temperature Range for Infra Red Thermometer | -50°to 550°C /-58°F to 932°F |
| Resolution | 0.1° (up to 200°) else 1° |
| Accuracy | ±2.0% |
| Distance to Sighting Ratio | 8:1 |
| Emissivity | 0.95 Fixed |
| Relative Humidity Range | 5%RH -95%RH |
| Resolution | 0.1%RH |
| Accuracy | ±3.5%RH |
| Confirms to CE | |


| Compact probe size Hygro-Thermometer with Dew Point and Wet Bulb Temperature | |
|---|---|
| Fast Response time | |
| Auto Power Off | |
| High Accuracy and High on performance | |
| Max /Min Hold and Data Hold Function | |
| Selectable °C /°F Scales | |
| Display | 4 Digits Backlit Dual LCD |
| Relative Humidity Range | 0 to 100% RH |
| Resolution | 0.01%RH |
| Accuracy | ±2%RH |
| Temperature Range | -30° to 100°C /-22° to 199°F |
| Resolution | 0.01° |
| Accuracy Dew Point | ±0.5° /0.9°F |
| Temperature Range | -30° to 100°C /-22° to 199°F |
| Resolution | 0.01° |
| Accuracy | ±0.5°C /0.9°F |
| Wet BulbTemperature Range | 0 to 80°C /32° to 176°F |
| Resolution | 0.01° |
| Accuracy | ±0.5° /0.9°F |

| | |
|---|---|
| Displays Temperature, Humidity & Time Simultaneously | |
| Memory for Max & Min values | |
| 12 Hour /24 Hour Time format | |
| °C/°F unit selectable | |
| Alarm Function | |
| Clock & Calendar function | |
| Desk Tope Placing or Wall Hanging | |
| Large LCD Display | |
| Temperature Rage | -50 °C TO 70°C |
| Accuracy | ±1°C |
| Humidity Range | 20% to 90% |
| Accuracy | ±5%RH |


| | |
|---|---|
| Environment comfort display | COMFORT(comfortable),WET (highhumidity), DRY (dobath) |
| Temperature measuring range | 0°C-50°C (32°F-120°F) |
| Accuracy | ±1.0°C (1.8°F) |
| Humidity measuring range | 10%RH - 90%RH |
| Accuracy | ±5% |
| Time/Temperature/Humidity display | |
| °C/°F unit selectable | |
| Highest & Lowest temperature humidity memory function | |
| Daily alarm functions 12/24 hours clock | |


## Digital Thermometer

| | |
|---|---|
| CE-Mark approval | |
| Display | 3½ digital 2000 counts with high resolution back-light |
| K-type thermocouple input °C or °F announced | |
| Reading HOLD & MAX function | |
| User-Selective resolution 0.1°/1° | |
| Highly accurate with basic 0.1% | |
| According to temperature standard ITS-90 | |
| Low Battery Indication | |
| Temperature Range | -50°C to 1300°C, -58°F to 1999°F |
| Accuracy | ±0.3% |


| | |
|---|---|
| CE-Mark Approval | |
| Large Backlit LCD Display | |
| Relative Time clock on Max Min and AVG provides a time reference for major events | |
| Electronic Offset function | |
| Temperature Readout in °C, °F or Kelvin | |
| Auto Power Off | |
| Range | -200°C to 1372°C (-328°F to 2501°F) |
| Accuracy | ±0.15% |


## Digital Temperature Indicator

| | |
|---|---|
| Flush Mounting type | |
| Sizes | 96 x 96 mm sq 'OR' 72 x 72mm sq 'OR' 96 x 48 mm sq |
| Display | 3-1/2 Digits Seven Segment |
| Red LED display | |
| Cold Junction | |
| Compensation | Automatic for Thermocouple |
| Open Sensor Indication | |
| Sensor Input | J, K, R, S, T/C, PT-100 RTD,V & 4 - 20mA |
| Accuracy | J,K 1%; R,S 0.5%;PT-100 RTD 0.2%,mV,V,mA 0.1% |
| Auxiliary Power Supply | 230V Single Phase AC 50Hz. |


| | |
|---|---|
| Hand Held Battery Operated | |
| Is used to measure temperature using PT-100 RTD Sensor | |
| Measures temperature up 600°C | |
| Accuracy | ±1.5% |
| 9V Battery Operated | |


| | |
|---|---|
| CE-Mark Approval | |
| Two Thermocouple Inputs. | |
| Can measure temperature of two places at the same time, | |
| Differential Temperature Can also be measured between two points | |
| Large Backlit LCD Display | |
| Relative Time clock on Max Min and AVG provides a time reference for major events | |
| Electronic Offset function | |
| Temperature Readout in °C, °F or Kelvin | |
| Auto Power Off | |
| Range | -200°C to 1372°C (-328°F to 2501°F) |
| Accuracy | ±0.15% |

| | |
|---|---|
| Pen type Digital Thermometer | |
| Max /Min Temperature record | |
| Auto Power Off | |
| °C /°F Range selectable | |
| Waterproof instrument | |
| Data Hold to Freeze displayed Data | |
| Display | 3-1/2 Digits 1999 Counts LCD |
| Range | -40° to 250°C /-40°F to 482°F |
| Resolution | 0.1°C /0.1°F |
| Accuracy | ±1.5% |

| | |
|---|---|
| Thermometer with High and Low Alarms | |
| Built-in 110mm stainless steel sensor | |
| 1 second normal temperature sensing time | |
| Low Battery Indication | |
| Data Hold Function | |
| Temperature can be measured in °C and °F | |
| Range | -50 to 300°C/ -58°F to 572°F |
| Accuracy | ±1°C |
| Resolution | 0.1°C /0.2°F |
| Low Battery Indication | |


## Digital Three Phase Ammeter

| | |
|---|---|
| Designed using microprocessor based multiplexing technique | |
| Can sense any changes in the line currents | |
| These are CT Operated meters and are factory set either 1A or 5A CT Secondary | |
| Displays phase currents for a three phase system | |
| Size | 96 x 96 mm sq, |
| 3-1/2 Digits Red LED Display | |
| With built-in selector switch | |
| Measures Ir, Iy, Ib | |
| Accuracy | ±1% of full scale |
| Current Input | 7A Max continuous at any current terminal |


## Digital Three Phase Voltmeter

| | |
|---|---|
| Designed using microprocessor based multiplexing technique | |
| Can sense any changes in the line voltage | |
| Displays line to line voltages for a three phase system | |
| Size | 96 x 96 mm sq, |
| 3-1/2 Digits Red LED Display | |
| With built-in selector switch | |
| Measures Vr-y, Vr-b, Vb-y | |
| Accuracy | ±1% of full scale |
| Voltage Input | 500V Max phase to phase at any voltage terminal |


## Digital Time Interval Meter

| | |
|---|---|
| Suitable to test protective device, circuit breaker, tripping coils, relays etc. | |
| Input | 230V Single Phase AC 50Hz. |
| Number of Channel | One |
| Display of each channel | 7 segment LED type, 4 digits |
| Ranges | A. 0 - 999.9mSec Resolution 100uSec |
| | B. 0 - 9.999 Sec. Resolution 1mSec |
| | C. 0 - 99.99 Sec. Resolution 10mSec |
| Time Start Mode | Simultaneously starts by injection of 20V to 240V AC/DC or by potential Free Contact |
| Time Stop Mode | Individual stop of timer countingwith excitation of auxiliarycontacts of relay or switchgearunder test. |


| | |
|---|---|
| Suitable to test protective device, circuit breaker, tripping coils, relays etc. | |
| Input | 230V Single Phase AC 50Hz. |
| Number of Channel | THREE |
| Display of each channel | 7 segment LED type, 4 digits |
| Ranges | A. 0 - 99.99mSec. Resolution 10uSec |
| | B. 0 - 999.9mSec. Resolution 100uSec |
| | C. 0 - 9.999mSec. Resolution1mSec |
| Time Start Mode | Simultaneously 3 channel starts by injection of 20V to240V AC/DC or by potential Free Contact |
| Time Stop Mode | Individual stop of timer counting with excitation of auxiliary contacts of relay or switchgear under test. |

## Digital VA Meter

| |
|---|
| Microprocessor based 3 phase VA measurement. |
| Available in 96 * 96 mm Bezel Size. |
| Meters can be factory set for different CT/PT ratios to give a direct reading. |
| Meters are autoranging from KVA to MVA. |
| Available for 415V(LT) and 110 V(HT) systems and for1 Amp and 5 Amp CT secondary. |
| Auxiliary Power Supply 230V AC 50Hz /110V AC 50Hz. |

## Digital VAR Meter

| |
|---|
| Microprocessor based 3 phase VAR measurement. |
| Available in 96 * 96 mm Bezel Size. |
| Meters can be factory set for different CT/PT ratios togive a direct reading. |
| Meters are autoranging from KVAR to MVAR. |
| Available for 415V(LT) and 110 V(HT) systems and for1 Amp and 5 Amp CT secondary. |
| Auxiliary Power Supply: 230V AC 50Hz /110V AC 50Hz. |
| In the model number X could be 3 for 3 wire loads and 4 for 4 wire loads |


| |
|---|
| Three phase meters display individual phase values andalso system values. |
| Available for 415V(LT) and 110 V(HT) systems and for1 Amp and 5 Amp CT secondary. |
| Auxiliary Power Supply \| 230V AC 50Hz /110V AC 50Hz |
| In the Model number Y could be 3 for 3 phase and 1 for single phase and X could be 2 for 2 wire loads, 3 for 3 wire loads and 4 for 4 wire loads |

## Digital Voltage Controller

| |
|---|
| Size - 96 x 96 mm. sq. |
| Display \| 3-1/2 Digits |
| Would measure AC Voltage. |
| Range: Any Single Range up to 1000V for direct inputto the meter 'or' KV rating through a PT input can bemade available. |
| Can set single set point to activate a relay. |
| Potential free 1 NO+ 1NC Contact |
| Auxiliary Power Supply: 230V AC 50Hz /110V AC 50Hz/ DC Auxiliary inputs also available |
| At the time of placing the order, please inform theVoltage range, PTR value (if the input is through a PT), auxiliary power supply |


## Digital Voltmeter

| |
|---|
| Size - 96 x 96 mm. sq. /72 x 72 mm sq /96 x 48 mm sq |
| Display: 3-1/2 Digits 'or' 4-1/2 Digits LED Display |
| Voltmeters for measuring AC voltages. |
| Range: Any Single Range up to 1000V for direct inputto the meter 'or' KV rating through a PT input can bemade available. |
| Auxiliary Power Supply: 230V AC 50Hz /110V AC 50Hz/ DC Auxiliary inputs also available |
| At the time of placing the order, please inform theVoltage range, PTR value (if the input is through a PT), auxiliary power supply, size, 3-1/2 digits /4-1/2 digits display needs to be mentioned. |


## Digital Wattmeter

| |
|---|
| Digital Watt Meter |
| Microprocessor based 3 phase and single phase PowerFactor measurement. |
| Available in 96 * 96 mm Bezel Size for three phase and single phase meters and 96 * 48mm for single phase meters. |
| Meters can be factory set for different CT/PT ratios togive a direct reading. |


## Distance Meter

| |
|---|
| Measures in imperial /metric units |
| Start Point Selection |
| Data Store /Recall |
| Computes Areas and Volumes |
| 5 Groups of values in memory |
| Sum of lengths |
| Auto /Manual shut off |
| Backlit LCD |
| Audio warning for wrong readings |
| Measuring Range 0.5 – 16m (1.64 – 52.48ft) |
| Accuracy : ±1.0% |

## ELCB Tester

| |
|---|
| Taut Band Movement |
| Simple operation |
| Wiring check |
| Robust |
| Can be used on 2 wires L-E (RCCB /ELCB tester) |
| Can be used on 3 wires L-E-N (with wiring check) |
| No batteries |
| Sense automatically 50 or 60 Hz |
| Current injected in phase with the voltage. |
| Current Settings 10-50mA @110Vac (230Vac, 550Vac) |
| Frequency of operation 50 /60 Hz Sinusoidal |
| Operating Voltage (L-E) 110Vac (230Vac, 550Vac) +/-15% |
| Meter Accuracy ±1% of Full Scale |

| |
|---|
| Extra Large Liquid Crystal Display. |
| Very low consumption. |
| Microprocessor controlled. |
| Accurate digital readout of disconnection time. |
| Automatic data hold function. |
| Zero crossing circuitry permit testing at 0° or 180°. |
| Disconnection phase polarity shown on L.C.D. display. |
| Auto-off and off override. |
| Polarity trip indicator ( Positive or Negative phase ) |
| Wiring polarity indicator. |
| Current Settings 10mA, 20mA,30mA, 200mA, 300mA, 500mA. |
| Phase Start Selection \| 0° and 180° |

| | |
|---|---|
| Over-Temperature Protection, Wiring Correctness Indication, Trip Indicator, Phase Polarity Trip Indicator | |
| Timer Resolution | 1mS (max time=2.999S) |
| Timer Accuracy | 0.6% ±4 dgt |
| Current Accuracy | ±5% ±1mA |

## Electrical Tester

| |
|---|
| Non Contact Detection of AC Voltage |
| Used to detect live cables from 90V and 1000V |
| Indication is both visual and audio |
| Buzzer sound and light is produced when the cable is live |
| Confirms to IEC-1010 and IP-54 |
| Battery Operated |

| |
|---|
| Non Contact Detection of AC Voltage |
| Easy to use just bring it near a power outlet or cord and when it glows red you know the line is live |
| Fits in shirt pocket for convenience |
| All outer surfaces is non-conductive for safety |
| Detects voltage without metallic contact |
| Rugged, double molded body |
| Built-in flashlight with ON/OFF switch for convenience of use on dark areas |
| For use on 50/60Hz circuits |
| Operating Voltage range is 100 - 600V AC |
| Confirms to CAT-III 1000V |
| Used to find break in a wire or detect the presence of Voltage at outlets, lighting fixtures, circuit breakers, wire and cables |

| |
|---|
| Non Contact Detection of AC Voltage |
| Easy to use just bring it near a power outlet or cord and when it glows red you know the line is live |
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| All outer surfaces is non-conductive for safety |
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| Built-in flashlight with ON/OFF switch for convenience of use on dark areas |
| For use on 50/60Hz circuits |
| Operating Voltage range is 100 - 600V AC |
| Confirms to CAT-III 1000V |
| Used to find break in a wire or detect the presence of Voltage at outlets, lighting fixtures, circuit breakers, wire and cables |

| |
|---|
| Socket Polarity and Earth Leakage Tester |
| Tests Three Wire 220V AC outlets and Earth LeakageCircuit Breakers |
| Power Supply:From Unit Under Test |
| Confirms to CAT III 600V |
| Electrical Safety: IEC 61010/EN 61010;IEC 61557-7/ EN 61557-7 |
| Indicates the following Status:No Earth, Line Neutral Reversal, No Neutral, Line Earth Reversal, No Line |

| | |
|---|---|
| Phase Rotation Indicator | |
| Large LCD Display | |
| Three Phase Indication | |
| No Battery Required | |
| Nominal Voltage | 40V to 690V AC |
| Frequency Range | 15 to 400Hz |
| Power Supply | From Unit Under Test |
| Electrical Safety | IEC 61010/EN 61010; IEC 61557-7/EN61557-7 |
| Protection Level CAT III 600V, IP40 | |

| | |
|---|---|
| Microprocessor Based Hand Held | |
| Self Powered instrument | |
| Indicates Phase Sequence | |
| Also can measure AC Voltage and Frequency | |
| Phase Sequence determined as ABC or ACB | |
| AC Voltage Range | 50 – 500V |
| Accuracy | ±3% |
| Frequency | 20 – 400Hz |
| Accuracy | ±2% |

## EMF Tester

| | |
|---|---|
| Display | 3-1/2 digits LCD, maximum reading 1999. |
| Range | 200/2000 mG,20/200µT. |
| Resolution | 0.1/1 mG or 0.01/0.1 µT. |
| Frequency response | 30Hz to 300Hz. |
| Sensor | Single Axis |
| Accuracy | ±(2.5%±6dgt) at 50Hz/60Hz. |
| Over load Indication | |
| Battery | 9V |

## Event Counter

| | |
|---|---|
| Display | 6 Digits Red LED Display |
| Range | 1 to 999999 Counts |
| Count Input | a. Proximity Switches (PNP/NPN) |
| | b. Potential Free Contact |
| | c. 5 to 30V DC Voltage Pulse |
| | d. 230V AC Mains Pulse (Any One) |
| Counting Speed | 0 to 3 /30 /100 /1000 /2500Hz (Programmable) |
| Sensor Voltage | 12V DC 30mA Max. |
| Control Input | Hold (Optional) |
| Reset | Front Reset / Remote Reset (Programmable) |
| Memory Retention | Non Volatile (E2 PROM) upto 10 years |
| Auxiliary Power Supply | 90V to 270V AC 50Hz /60Hz. |


## Forehead Infra Red Thermometer

| |
|---|
| Non Contact Forehead IR Thermometer |
| User Selectable °C /°F |
| Selectable Body and Surface Tempeature |
| Alarm Function |
| Memorizes last 32 measurements |
| Auto Data Hold |
| Auto Power Off |
| Confirms to CE0137, FCC Standards |
| Measures in the range of 32.0 to 42.5°C (90 to 108°F) |
| Accuracy 0.54°F |
| Battery Operated |

## Frequency Transducer

| | |
|---|---|
| Input and outputs are Isolated | |
| Type | DIN RAIL Mounting |
| AC Input | 0 - 3.5, 110, 230,300, 440, 500V, Through PT for Higher Voltages (AnyOne) DC |
| DC Output | Current(mA) 4-20 Voltage (V) : 0- 10 As per Scale (Other Voltage and current outputs available on request) Single Output is standard Dual Output available onrequest |
| Auxiliary | Self Powered |
| Accuracy | Standard : ± 0.5% of Span |
| Optional | On Request |

## Function Generator

| | |
|---|---|
| Frequency of the mode | 0.1Hz---1MHz |
| Output waveform | Sine, Triangle, Square, ±Ramp, ±Pulse |
| TTL/CMOS and OUTPUT synchronous output | |
| Voltage Control Frequency (VCF) Capacity | |
| Less than 1% distortion at 10Hz-- 100 KHz | |
| Less than 0.5dB frequency response at 0.1Hz--- 100 KHz | |
| Frequency Counter | 1Hz---30MHz |
| Amplitude | Not less than 20V p--p (open circuit) |
| DC Voltage | 0--±10V continuously adjustable |


| | |
|---|---|
| Frequency of the mode | 0.1Hz---2MHz |
| Output waveform | Sine, Triangle, Square, ±Ramp, ±Pulse |
| TTL/CMOS and OUTPUT synchronous output | |
| Voltage Control Frequency (VCF) Capacity | |
| Less than 1% distortion at 10Hz-- 100 KHz | |
| Less than 0.5dB frequency response at 0.1Hz--- 100 KHz | |
| Frequency Counter | 1Hz---30MHz |
| Amplitude | Not less than 20V p--p (open circuit) |
| DC Voltage | 0--±10V continuously adjustable |


| | |
|---|---|
| Frequency of the mode | 0.1Hz---3MHz |
| Output waveform | Sine, Triangle, Square, ±Ramp, ±Pulse |
| TTL/CMOS and OUTPUT synchronous output | |
| Voltage Control Frequency (VCF) Capacity | |
| Less than 1% distortion at 10Hz-- 100 KHz | |
| Less than 0.5dB frequency response at 0.1Hz--- 100 KHz | |
| Frequency Counter | 1Hz---30MHz |
| Amplitude | Not less than 20V p--p (open circuit) |
| DC Voltage | 0--±10V continuously adjustable |

| | |
|---|---|
| Frequency of the mode | 0.1Hz---5MHz |
| Output waveform | Sine, Triangle, Square, ±Ramp, ±Pulse |
| TTL/CMOS and OUTPUT synchronous output | |
| Voltage Control Frequency (VCF) Capacity | |
| Less than 1% distortion at 10Hz-- 100 KHz | |
| Less than 0.5dB frequency response at 0.1Hz--- 100 KHz | |
| Frequency Counter | 1Hz---30MHz |
| Amplitude | Not less than 20V p--p (open circuit) |
| DC Voltage | 0--±10V continuously adjustable |

| | |
|---|---|
| Frequency of the mode | 0.1Hz---10MHz |
| Output waveform | Sine, Triangle, Square, ±Ramp, ±Pulse |
| TTL/CMOS and OUTPUT synchronous output | |
| Voltage Control Frequency (VCF) Capacity | |
| Less than 1% distortion at 10Hz-- 100 KHz | |
| Less than 0.5dB frequency response at 0.1Hz--- 100 KHz | |
| Frequency Counter | 1Hz---30MHz |
| Amplitude | Not less than 20V p--p (open circuit) |
| DC Voltage | 0--±10V continuously adjustable |

- 20MHz Function Generator with AM/FM
- Digital Cymometer and counter function
- Built-in linearity / log sweep function
- All terminals have the function of short circuit protectionand prevent input voltage protection function
- Outer connect FM and VCF input
- Metal shell has electromagnetic compatibility, smart outline
- Output Voltage and Frequency display
- Frequency find adjustment makes measurement more accurate
- Touch switch light, indicate board function
- Two Channel function signal can be used

## High Voltage Detector

- Detects the presence of voltage in AC Lines.
- Can be extended in length from 354mm to 1005mm
- Used to detect High Voltage up to 24kV
- Water proof
- Can also be used to detect low voltage up to 600V
- Has both visual and audible indication

- Detects the presence of voltage in AC Lines.
- Can be extended in length from 230mm to 880mm
- Used to detect High Voltage up to 24kV
- Water proof
- Can also be used to detect low voltage up to 600V
- Has both visual and audible indication

- Detects High and Extra High Voltage
- Elongated insulation rod permits checking of high tension circuits at safe distance
- Light weight, Easy to use and Handy
- Can be extended from 1370mm to 2450mm
- Detects presence of Voltage from 3kV to 81.5kV
- Water Proof
- Confirms to IEC/EN 61243-1, 60068-2-14, 60068-2-32
- Battery Operated

- High Voltage Proximity Detector (Non Contact type)
- Has an Eight Voltage Detection setting from 240V AC t 275kV AC.
- Consists of an internal pickup sensor plate, sensitivity selector.
- Has a visual and audible indication
- Can be used with HOT STICK to increase the length.
- "O" Ring Sealed Body
- Self Check facility
- Battery Operated.
- Hot Stick is Optional

| |
|---|
| Ideal tool for checking the presence of AC High Voltages and AC Low Voltages in cables, wall outlet, fuses etc. |
| Non Contact Voltage Detection from 50V to 132kV |
| Self Check Facility |
| Can be used with HOT STICK to increase the length |

| | |
|---|---|
| Can be used for Low Voltage | 50 V ~ 1.5kV |
| Also can be used for High Voltage | 1.5kV ~ 132kV |

## Hot Line Indicator

| |
|---|
| Hot Neon Indicator to check Live Cable |
| Detects up to 33kV by means of tube |
| Rated Voltage (Max.) 33kV |
| Minimum Voltage for Glow: 500V |
| Audible Alarm Option available |
| Available in 6.6kV, 11kV and 33kV |

## Hour Meter

| |
|---|
| Counting Range 99999.99 Hours |
| Panel Flush Mounting |
| Size 52 x 52 mm sq |

| | |
|---|---|
| Standard Voltage | 220V /110V AC (Any One) |
| Temperature Range | -20 to 65°C |


| |
|---|
| Counting Range 99999.99 Hours |
| Panel Flush Mounting |
| Size 52 x 52 mm sq |

| | |
|---|---|
| Standard Voltage | 10 – 48 V DC |
| Temperature Range | -20 to 65°C |


## Infra Red Temperature Calibrator

| |
|---|
| Black Body is used to calibrate infra red thermometers |
| Easily certify infra red thermometers up to 500°C (932°F) |
| RTD Reference Well for high precision |
| Small compact design |

| | |
|---|---|
| Temperature Range | 50°C ~ 500°C (122°F ~ 932°F) |
| Accuracy | ±0.5°C @100°C (±1.0°F @212°F) |
| | ±0.8°C @500°C (±1.4°F @932°F) |
| Stability | ±0.1°C @100°C (±0.2°F @212°F) |
| | ±0.3°C @500°C (±0.5°F @932°F) |
| Target Emissivity | 0.95 |
| Resolution | 0.1°C /0.1°F |
| Heating Time | 30 minutes to max |
| Cooling Time | 30 minutes to 100 °C (122°F) |
| Aperture Diameter | 58mm |
| Power | 220VAC(±10%), 1.25A / 110VAC(±10%),2.5A |
| Complete with carrying case and instruction manual | |

## Insulation Tester

| |
|---|
| Light Weight Easy to Operate |
| LED for indicating output ON or OFF |

| | |
|---|---|
| Insulation Resistance Range | 0 - 1000 MΩ |
| Insulation Resistance test Voltage | 500V |
| AC Voltage | 0 - 600V AC |

| |
|---|
| Used for Insulation test for general equipment and electronic components. |
| Internal Battery Check Facility |


| |
|---|
| Light Weight Easy to Operate |
| LED for indicating output ON or OFF |

| | |
|---|---|
| Insulation Resistance Range | 0 - 2000 MΩ |
| Insulation Resistance test Voltage | 1000V |
| AC Voltage | 0 - 600V AC |

| |
|---|
| Used for Insulation test for general equipment and electronic components. |
| Internal Battery Check Facility |

## Integrated Meter

| | |
|---|---|
| Microprocessor Based Digital Multi function meter for three phase measurement. | |
| PARAMETERS DISPLAYED: | |
| VOLTAGE | Three phase Line to Line and Line to neutral Voltages with Autoranging to Kilo-Volt. |
| CURRENT | Three phase currents with Autoranging to Kilo-Amperes. |
| POWER | Three phase individual KW,KVA and KVAR with Autoranging to MW,MVA and MVAR |
| Total (of three phases) KW, KVA and KVAR with Autoranging to MW, MVA and MVAR. | |
| POWER FACTOR | Three phase individual Power factors and overall system Power Factor. |
| FREQUENCY | System frequency. |
| ENERGY | KWh, KVAh and KVARh. |
| MAXIMUM DEMAND | Demand in KW and KVA. |
| Password Protected. | |
| Programmable CT/PT ratios. | |
| Accuracy | 1% for Voltage, current, KWh, KVAh & KVARh.<br>2% for Power Parameters. |
| Display | 16 Character x 4 Lines Backlit LCD display. |
| Bezel Size | 96 X96 mm |
| Auxiliary Power Supply | 230V AC 50Hz /110V AC 50Hz |


## Kelvin Double Bridge

| | |
|---|---|
| Suitable for the use of wires and cable manufacturers and Transformer industry | |
| Extensively used for finding the resistance of transformer winding, contact resistance of relays etc. | |
| Measures in the range of 0.2 Micro ohms to 11 Ohms | |
| Measurement Ranges | 2 Milli ∧ to 11∧, 0.2Milli ∧ to 1.1∧, 20 Micro ∧ to 11∧, 2 Micro ∧ to 0.11∧ and 0.2 Micro ∧ to 0.011∧ |
| Max Current | 10A intermittent and 5A continuous |
| Accuracy | ± 0.05% |
| Battery Reversing Switch provided to reverse the current in the bridge to eliminate thermal effect | |
| Complete with Spot Reflecting Galvanometer, Heavy Duty DC Current Source, Conductivity Attachment | |


## Laser Distance Meter

| | |
|---|---|
| Range | 0.05 to 50m (0.16 to 164 ft) |
| Accuracy | ± 1.5mm |
| Measures in m, in, ft | |
| Indirect measurement using Pythagoras | |
| Addition /Subtraction | |
| Area and Volume Calculation | |
| Min /Max distance tracking | |
| Continuous measurement | |
| Beep Indication | |
| Illuminated display with multi-line display | |
| IP-54 Protection | |
| Records 20 data | |
| Auto Power Off | |


## Logic Probe Cum Pulser

| | |
|---|---|
| Useful tool for inspecting and repairing logic circuits | |
| Used directly to inject a signal into the logic circuits without removing the IC or breaking the circuits. | |
| The output is changeable between 0.5 to 400Hz, making it suitable for use with either a logic probe or with an oscilloscope | |
| Pulse Width | 10ms |
| Maximum Input Signal Frequency | 50MHz |
| Input Impedance | 120K∧ |
| Power Supply Range | 5 – 15 V DC |

## Metal Detector

| | |
|---|---|
| Simple operation, compact design, easy to store, low failure rate. | |
| Sensitivity is very easy to detect the size of a pin (or even less), metal items. | |
| Has the Low battery indication | |
| Very Cost Effective and stylish product | |
| Audio as well as Vibration Alert | |
| Battery Operated | |
| Light Weight | |
| Detection Distance | Pin – 35mm, Handgun – 120mm, US25 Cents 50mm. |

| |
|---|
| Ultimate sensitivity: detects medium sized pistol from 9" distance; large knife from 6"; razor blades and box cutters from 3" distance; foil-wrapped drugs and tiny jewelry from 1". |
| Self-calibrating: digital microprocessor technology eliminates the need for periodic sensitivity adjustments. |
| Rugged, high-impact ABS case with reinforced coil compartment. Exceeds Mil-Std-810F (drop test) Method 516.5, procedures II and IV. |
| Large 8" scan surface for quick, thorough scanning. |
| No tools required to change standard 9V battery (included). Optional rechargeable battery kit available. |
| Sharp audible alarm and bright red LED indicates the detection of metal. |
| Momentary push button helps temporarily eliminate detection of nearby ambient metal such as rebar, metal walls. |
| Audio as well as Vibration Alert |
| Battery Operated |
| Light Weight |


## Million Megohms Meter

| | |
|---|---|
| Ideal for measuring high resistance and insulation | |
| Output Test Voltage | 100V/200V/300V/400V/500V |
| It has a measuring range of 1M∧ to 10 Million M∧ | |
| Insulation Resistance Range available in 6 ranges. | |
| Accuracy | ±5% |
| Overload Protection | |
| Visual warning for HT link | |
| Analogue Display | |
| Auxiliary Power Supply | 220V AC |


## Motor Checker

| | |
|---|---|
| Provides a fast and easy means to detect electrical faults- short circuits, open circuits, damaged insulation etc. - in motors and other three phase machine | |
| Used on stationary motors | |
| It measures insulation resistance in the range of; 0 -20 M ohms at 500 V DC, 0.25 mA Max. | |
| Resistance measuring range | 0 - 60∧ (0 - 0.2 ohmsin Range 6 ) |
| Inductance measuring range | 0 - 300 mH (0 - 1 mH inRange 6 ) |
| Battery Test | Condition of batteries indicated on meter |
| Battery operated | |


| | |
|---|---|
| Micro Controller based diagnostic tool for Electrical Engineers | |
| Indentifies Open and Short Circuits / Loose Connections In a winding coil | |
| Detect Rotor Bar problems without dismounting the motor | |
| Display | LCD |
| Insulation Resistance | 0 - 20M.Ohms at 500V DC |
| Resistance Test | 0 - 200 / 20 / 6 / 2 /600m /200m∧ |
| Inductance Test | 0 - 1000m / 300m / 100m / 30m / 10m / 3mH |
| Low Battery indication | |


| | |
|---|---|
| Micro Controller Based Diagnostic Tool for Electrical Engineers | |
| Insulation Resistance, Resistance, Inductance measurement | |
| Identifies Open and Short Circuits / Lose Connections in a winding coil | |
| Identify inter turn shorts | |
| Shock Proof Rubber Body | |
| Insulation Resistance | 200M∧ @500V and 2000M∧ @1000V |
| Accuracy | ±2% |
| Resistance | 0 – 200m / 20 / 200∧ |
| Accuracy | ±2% |
| Inductance | 0 – 2m / 20m / 200m / 2000mH |
| Accuracy | ±3% |
| Battery Operated | |


## Multifunction Environment Meter

| | |
|---|---|
| Hand Held Multifunction Four - in - one meter | |
| With RS-232C PC Interface facility | |
| Combination of Sound Level, Lux, Temperature and humidity meter | |
| Low Battery Indication | |
| Display | 3-3/4 Digits 3999 Counts LCD |
| Light | 0 - 40 / 400 / 4000 / 40,000 Lux |
| Accuracy | ±5% |
| Sensor | Silicon Photo Diode with filter |
| Sound Level range | 35 - 130dB |
| Resolution | 0.1dB |
| Accuracy | ±3.5dB |
| Frequency Weighting | A |
| Time Weighting | Fast |
| Humidity range | 25 to 95% RH |
| Resolution | 0.1%RH |
| Accuracy | ±5% RH |
| Temperature range | -20° to 750°C/-4° to 1400°F |
| Resolution | 0.1°C |
| Accuracy | ±3% |
| Confirms to CE, EN-61010, CAT-II 600V | |

| | |
|---|---|
| 6-in-1 digital instrument | |
| Combines Sound Level Meter, Light Meter, Humidity Meter, Temperature Meter, Non Contact Voltage Detector and Digital Multimeter | |
| 600V AC/DC Protection on all ranges. | |
| Fully Protected instrument | |
| Data Hold and Relative Measurements | |
| Display | 3-4/5 Digits Backlit LCD |
| Overload and Low Battery Indication | |
| 14 functions measure Sound level, Light, Humidity, and Temperature, DC Voltage, AC Voltage, DC Current, AC Current, Resistance, Diode and Continuity test. | |
| 3-4/5 Digital large LCD display with units of Lux,°C,%RH and dB indication. | |
| Easy to use with single function switch operating, pocket size and light weight. | |
| Sound level measures from 35dB to 100dB for C weighting checking with 0.1dB resolution. | |
| Light measuring levers ranging from1 Lux to 40,000Lux. | |
| Humidity measurement from 30%RH to 90%RH with 1%RH resolution and fast time response | |
| Temperature | -20°C to 750°C /-4°F to 1382°F |
| Frequency up to 10MHz | |

## Non Contact Temperature Controller

| | |
|---|---|
| Precise non-contact measurements | |
| High distance to target ratio measures smaller surface areas at greater distances | |
| Widest temperature range | |
| Emissivity Digitally adjustable from 0.10 to 1.0 | |
| Backlight LCD display | |
| Built-in laser pointer | |
| Automatic selection range and Display Resolution 0.1ºC (0.1ºF) | |
| Heating and Cooling mode control output | |
| Relay Output | |
| Temperature Range -50 to 900ºC | |
| D:S Ratio: 50:1 | |
| Over Range Indication | |
| Relay Output of 5A /250V AC | |
| Single Set Point | |
| Size of Panel Meter 72 x 72 mm sq | |
| Complies to CE and EMC Directives | |

## Multi-Point Temperature Indicator

| | |
|---|---|
| Flush Mounting type | |
| Used to measure Multi-Point temperature | |
| Sizes | 96 x 96 mm sq |
| Display | 3-1/2 Digits Seven Segment Red LED Display |
| Cold Junction Compensation | Automatic forThermocouple |
| Open Sensor Indication | |
| Sensor Input | J, K, R, S, T/C, PT-100 RTD, V & 4 - 20mA |
| Accuracy | J,K 1%; R,S 0.5%; PT-100RTD 0.2%, mV,V,mA 0.1% |
| Number of Sensor Inputs | 6 by Rotary Switch |
| Auxiliary Power Supply | 230V Single Phase AC 50Hz. |

| | |
|---|---|
| Flush Mounting type | |
| Used to measure Multi-Point temperature | |
| Sizes | 96 x 96 mm sq |
| Display | 3-1/2 Digits Seven Segment Red LED Display |
| Cold Junction Compensation | Automatic forThermocouple |
| Open Sensor Indication | |
| Sensor Input | J, K, R, S, T/C, PT-100 RTD, V & 4 - 20mA |
| Accuracy | J,K 1%; R,S 0.5%; PT-100RTD 0.2%, mV, V, mA 0.1% |
| Number of Sensor Inputs | 12 points (Any One) by Rotary Switch |
| Auxiliary Power Supply | 230V Single Phase AC 50Hz. |

## Oil Test Set

| | |
|---|---|
| It is ideal for speedy and accurate testing of di-electric strength of transformer and circuit beaker oil under test room condition in accordance with IS: 6792-1972 for oil testing. Manually operated. | |
| Input | 230V Single Phase AC 50Hz. |
| Output | Continuously variable from 0 to 50kV /0 - 60kV /0 - 70kV / 0 - 75kV /0 - 80kV /0 - 90kV /0 - 100kV /120kV AC with centre point of the HV winding earthed |
| Capacity | Spread over a range from 500VA to 1200VA depending on the output voltage |
| Duty | Intermittent duty cycle |
| Nature of Cooling | The transformer is cast resin type air cooled |
| Manually Operated | |

| | |
|---|---|
| It is ideal for speedy and accurate testing of di-electric strength of transformer and circuit beaker oil under test room condition in accordance with IS: 6792-1972 for oil testing. Manually operated. | |
| Input | 230V Single Phase AC 50Hz. |
| Output | Continuously variable from 0 to 50kV /0 - 60kV /0 - 70kV / 0 - 75kV /0 - 80kV /0 - 90kV /0 - 100kV /120kV AC with centre point of the HV winding earthed |
| Capacity | Spread over a range from 500VA to 1200VA depending on the output voltage |
| Duty | Intermittent duty cycle |
| Nature of Cooling | The transformer is cast resin type air cooled |
| Manually Operated | |

## Oscillometer

| |
|---|
| Professional True RMS Industrial Digital Multimeter with oscilloscope functions |
| TFT color LCD display, providing fast A/D converting sampling time, |
| High accuracy, built-in data logging and Trend Capture features. |
| It can trace any interrupted problems of the equipment and watch on without person |
| It is easy to find and solve the problems of the production equipment |
| Providing Bluetooth technology and memorizing the data |
| It is much more safe measurements with double molded plastic housing design and IP67 waterproof function. |
| Large 50,000 count 320 x 240 TFT color LCD display |
| 10MHz/50MS/s bandwidth/Real time sample rate |
| Logging function with TrendCapture for easy review of logged data |
| Bluetooth PC interface for easy data transfer & accuracy calibration |
| 100kHz/100kHz bandwidth (voltage/current) |
| AC, AC+DC true-RMS measurements |
| Records events and trends |
| Saves measurements |
| A/D convert fast sampling time |
| Peak capture (records transients as fast as 250µs) |
| Min/Max/Average with Time stamp (records signal fluctuations) |
| Motor winding and low ohm (50∧) measurement range |
| Low pass filter |
| IP Rating 67 |
| Compatible with AC/DC clamp-on adaptor with Bluetooth at mV range |


| | |
|---|---|
| A unique combination of Digital Storage Oscilloscope + Recorder + Multimeter | |
| Vertical Dual Channel Input, bandwidth 200MHz | |
| Sweep Base Time Velocity | 50s/div ~ 2.5ns/div |
| Real Time Sampling Rate 100MSa/Sec | |
| Equivalent Sampling Rate 10GSa/Sec | |
| Playback, Zoom and Cursor measurement facility | |
| Auto measure of Waveform parameters | |
| Waveform math calculations | |
| Auto, Edge, External, Video, Pulse Width Trigger Modes | |
| RS-232 PC Interface facility | |
| Storage of waveform and measured value | |
| Vertical Deflection Factor: | 2mV/Div ~ 50V/Div in steps of 1 - 2 – 5 |
| Rise Time < 2ns | |
| Channel Isolation > or = 30:1 | |
| Horizontal Time Base: | 2.5nS/Div to 50S/Div |
| 10 Storage locations to store 2 waveforms in each location | |
| Number of records that can be stored is 2 | |
| Complete with test leads, holster, battery, instructionmanual, RS-232 PC interface cable and software | |

| |
|---|
| A unique combination of Digital Storage Oscilloscope + Recorder + Multimeter |
| Vertical Dual Channel Input, bandwidth 100MHz |
| Sweep Base Time Velocity 50s/div ~ 2.5ns/div |
| Real Time Sampling Rate 100MSa/Sec |
| Equivalent Sampling Rate 10GSa/Sec |
| Playback, Zoom and Cursor measurement facility |
| Auto measure of Waveform parameters |
| Waveform math calculations |
| Auto, Edge, External, Video, Pulse Width Trigger Modes |
| RS-232 PC Interface facility |
| Storage of waveform and measured value |
| Vertical Deflection Factor: 2mV/Div ~ 50V/Div in steps of 1 - 2 – 5 |
| Rise Time < 2ns |
| Channel Isolation > or = 30:1 |
| Horizontal Time Base: 2.5nS/Div to 50S/Div |
| 10 Storage locations to store 2 waveforms in each location |
| Number of records that can be stored is 2 |
| Complete with test leads, holster, battery, instructionmanual, RS-232 PC interface cable and software |

## Oscilloscope

| | |
|---|---|
| Single Channel Single Trace Oscilloscope | |
| Bandwidth | 10MHz |
| Confirms to EN61010-1 (1993) and EN-IEC61326-1 (1997) | |
| Wide measurement | |
| High sensitivity and trigger lock | |
| Sweep switch adopts digital code switch and accuracy | |
| Proper to use in colleges and for engineers andtechnicians | |
| Deflection factor is 5mV~5V/div in 1-2-5 Sequence in10 steps | |
| Accuracy | ±5% |
| Maximum Input Voltage | 400Vpk |
| Sweep deflection factor is 0.1us/div-0.1s/div | |
| Accuracy | ±5% |
| Trigger Sensitivity | INT:1.5div EXT:0.3V |
| Trigger mode | INT, EXT, LINE, TV |
| Trigger Sweep Mode | NORM, AUTO, TV. LOCK |
| Calibration Signal | 0.5V Square waveof 1kHz |
| CRT Effective working Area | 8x10div 1div=6mm |
| Auxiliary Power Supply | 220V AC 50Hz |

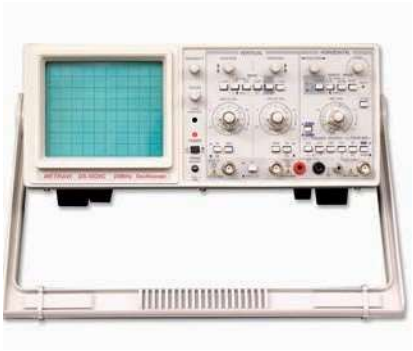
## Metravi OS-5020

| Dual Trace Dual Channel Oscilloscope | |
|---|---|
| Bandwidth | 20MHz |
| Full bandwidth sweeping circuit is used in the sweeping system | |
| The flexible and convenient triggering mode has the functions for selecting signals from one channel or triggered by Ext signals | |
| ALT trigger to observe signals from two irrelative channels | |
| The instrument has the functions of TV-H /TV-V synchronization and trigger-lock to observe all kinds of signals stably | |
| From the terminal for trigger input, CH1 and CH2 signals can be output along with the triggering channel to connect the Ext frequency counter | |
| Y deflection operation | Y1, Y2, ALT, CHOP, ADD, mode X-Y |

| | |
|---|---|
| Vertical Deflection | 5mV/Div to 20V/Div infactor 1-2-5 sequence in 12 steps |
| Rising time | < 18nS |
| Maximum Input Voltage | 400V (DC +ACp-p) |
| Triggering Source | Y1, Y2, ALT, POWER, EXT |
| Trigger Coupling | AC/DC (EXT), NORM/TV-H, TV-V |
| Horizontal Sweep Mode | AUTO, TRIG, LOCK, SINGLE |
| Sweep time factor | 0.1uS/div to 0.2s/div in 1-2-5 sequence in 20 steps |
| Magnification | x10 |
| X-Y Mode input | X-Axis YI and Y-Axis Y2 |
| Z Axis minimum input level | TTL Level |
| Calibration Signal | Square wave of 0.5V at 1kHz |
| CTR Display size | 8cm x 10cm |

| Dual Trace Dual Channel Oscilloscope with Component Test Facility | |
|---|---|
| Bandwidth | 20MHz |
| Full bandwidth sweeping circuit is used in the sweeping system | |
| The flexible and convenient triggering mode has the functions for selecting signals from one channel or triggered by Ext signals | |
| ALT trigger to observe signals from two irrelative channels | |
| The instrument has the functions of TV-H /TV-V synchronization and trigger-lock to observe all kinds of signals stably | |
| From the terminal for trigger input, CH1 and CH2 signals can be output along with the triggering channel to connect the Ext frequency counter | |
| Y deflection operation | Y1, Y2, ALT, CHOP, ADD, mode X-Y |
| Vertical Deflection | 5mV/Div to 20V /Div infactor 1-2-5 sequence in 12 steps |

| | |
|---|---|
| Rising time | < 18nS |
| Maximum Input Voltage | 400V (DC +ACp-p) |
| Triggering Source | Y1, Y2, ALT, POWER, EXT |
| Trigger Coupling | AC/DC (EXT), NORM/TV-H, TV-V |
| Horizontal Sweep Mode | AUTO, TRIG, LOCK, SINGLE |
| Sweep time factor | 0.1uS/div to 0.2s /div in 1-2-5 sequence in 20 steps |
| Magnification | x10 |
| X-Y Mode input | X-Axis YI and Y-Axis Y2 |
| Z Axis minimum input level | TTL Level |
| Component Test Facility | |
| Calibration Signal | Square wave of 0.5V at 1kHz |
| CTR Display size | 8cm x 10cm |
| Auxiliary Power Supply | 230V 50Hz AC |

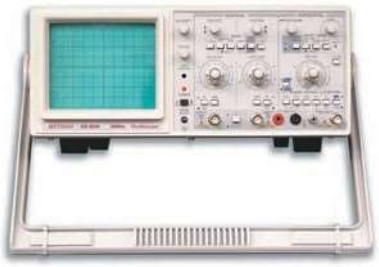


| Dual Channel Four Trace Oscilloscope | |
|---|---|
| Bandwidth | 25MHz |
| Confirms to EN61010-1 (1993) and EN-IEC61326-1(1997) | |
| High Sensitivity | 1mV/Div |
| Waveforms are parallax-free with CRT's internal graticule | |
| Alt Mag | The waveform (x1) and the x5 magnifiedwaveforms can be displayed simultaneously |
| Alt Trig | Stabilized triggering is accomplished with twounrelated signals |
| TV Synchronization | Stable TV signals are displayedusing new circuitry |
| Auto Focus | Focus deviation is automatically corrected |
| With Component test facility. | |
| Vertical Deflection sensitivity | 5mV/Div to 5V/Div in 1-2-5 sequence in 10 steps |

| | |
|---|---|
| Accuracy | ±3% |
| Rise Time | 14nS |
| Maximum Input Voltage | 300V (DC + AC Peak) |
| Input coupling system | AC-GND-DC |
| CH1 output voltage minimum 20mV/Div | |
| Time Base sweep Mode | x1, x5; x1, x5ALT |
| Sweep Mode | 0.1uS to 0.2S/iv in 20 calibrated steps of 1-2-5 sequence |
| Sweep Expansion | 20ns/div to 40ms/div |
| Alt Mag Trace | Maximum 4 traces |
| Trigger Mode | AUTO, NORM, TV-V, TV-H |
| Trigger Signal Source | INT, CH2, LINE, EXT |
| X-Y Operation Mode | CH1, X-axis and CH2, Y-axis |
| Z-Axis bandwidth | DC to 2MHz |
| Calibration Signal | 0.5V Square wave of 1kHz |
| Auxiliary Power Supply | 230V 50Hz AC |

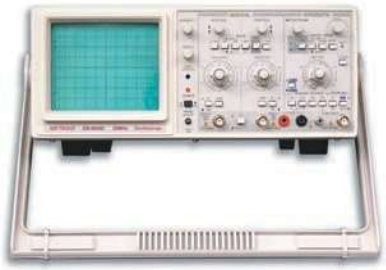
| Dual Trace Dual Channel Oscilloscope | |
|---|---|
| Bandwidth | 30MHz |
| Full bandwidth sweeping circuit is used in the sweeping system | |
| The flexible and convenient triggering mode has the functions for selecting signals from one channel or triggered by Ext signals | |
| ALT trigger to observe signals from two irrelative channels | |
| The instrument has the functions of TV-H /TV-V synchronization and trigger-lock to observe all kinds of signals stably | |
| From the terminal for trigger input, CH1 and CH2 signals can be output along with the triggering channel to connect the Ext frequency counter | |
| Y deflection operation | Y1, Y2, ALT, CHOP, ADD, mode X-Y |

| | |
|---|---|
| Vertical Deflection | 5mV/Div to 20V/Div infactor 1-2-5 sequence in 12 steps |
| Rising time | < 18nS |
| Maximum Input Voltage | 400V (DC +ACp-p) |
| Triggering Source | Y1, Y2, ALT, POWER, EXT |
| Trigger Coupling | AC/DC (EXT), NORM/TV-H, TV-V |
| Horizontal Sweep Mode | AUTO, TRIG, LOCK, SINGLE |
| Sweep time factor | 0.1uS/div to 0.2s/div in 1-2-5 sequence in 20 steps |
| Magnification | x10 |
| X-Y Mode input | X-Axis YI and Y-Axis Y2 |
| Z Axis minimum input level | TTL Level |
| Calibration Signal | Square wave of 0.5V at 1kHz |
| CTR Display size | 8cm x 10cm |



| Dual Trace Dual Channel Oscilloscope with Component Test Facility | |
|---|---|
| Bandwidth | 30MHz |
| Full bandwidth sweeping circuit is used in the sweeping system | |
| The flexible and convenient triggering mode has the functions for selecting signals from one channel or triggered by Ext signals | |
| ALT trigger to observe signals from two irrelative channels | |
| The instrument has the functions of TV-H /TV-V synchronization and trigger-lock to observe all kinds of signals stably | |
| From the terminal for trigger input, CH1 and CH2 signals can be output along with the triggering channel to connect the Ext frequency counter | |
| Y deflection operation | Y1, Y2, ALT, CHOP, ADD, mode X-Y |
| Vertical Deflection | 5mV/Div to 20V/Div infactor 1-2-5 sequence in 12 steps |

| | |
|---|---|
| Rising time | < 18nS |
| Maximum Input Voltage | 400V (DC +ACp-p) |
| Triggering Source | Y1, Y2, ALT, POWER, EXT |
| Trigger Coupling | AC/DC (EXT), NORM/TV-H, TV-V |
| Horizontal Sweep Mode | AUTO, TRIG, LOCK, SINGLE |
| Sweep time factor | 0.1uS/div to 0.2s/div in 1-2-5 sequence in 20 steps |
| Magnification | x10 |
| X-Y Mode input | X-Axis YI and Y-Axis Y2 |
| Z Axis minimum input level | TTL Level |
| Component Test Facility | |
| Calibration Signal | Square wave of 0.5V at 1kHz |
| CTR Display size | 8cm x 10cm |
| Auxiliary Power Supply | 230V 50Hz AC |



| Dual Channel Four Trace Oscilloscope | |
|---|---|
| Bandwidth | 60MHz |
| Confirms to EN61010-1 (1993) and EN-IEC61326-1(1997) | |
| High Sensitivity | 1mV/Div |
| Waveforms are parallax-free with CRT's internal graticule | |
| Alt Mag | The waveform (x1) and the x10 magnifiedwaveforms can be displayed simultaneously |
| Alt Trig | Stabilized triggering is accomplished with two unrelated signals |
| TV Synchronization | Stable TV signals are displayedusing new circuitry |
| Auto Focus | Focus deviation is automatically corrected |
| Vertical Deflection | 5mV/Div to 5V/Div in 1-2-5 sequencein 10 steps for both channels |
| Accuracy | ±3% |
| Rise Time | 6nS approx. |

| | |
|---|---|
| Maximum Input Voltage | 300V (DC + AC Peak) |
| Input coupling system | AC-GND-DC |
| Operation system | CH1, CH2, ADD and DUAL |
| Time Base sweep Mode | x1, x5; x1, x5ALT |
| Sweep Time | 0.1uS to 0.2S/iv in 20calibrated steps of 1-2-5 sequence |
| Sweep Expansion | 10ns/div to 20ms/div |
| Alt Mag Trace | Maximum 4 traces |
| Trigger Mode | AUTO, NORM, TV-V, TV-H |
| Trigger Signal Source | INT, CH2, LINE, EXT |
| X-Y Operation Mode | CH1, X-axis and CH2, Y-axis |
| Z-Axis badwidth | DC to 2MHz |
| Calibration Signal | 0.5V Square wave of 1kHz |
| Auxiliary Power Supply | 230V 50Hz AC |

| | |
|---|---|
| Dual Channel Four Trace Oscilloscope | |
| Bandwidth | 100MHz |
| Confirms to EN61010-1 (1993) and EN-IEC61326-1(1997) | |
| It has the function of B delay sweep | |
| High sensitivity | 1mV/DIV |
| In ALT (A and B alternately sweeps) mode, four traces aredisplayed | |
| Fast sweep rate to 5ns/DIV by magnifying 10 Function | |
| of B TRIG'D can decrease the delay shrinking | |
| Hold-off function makes it easier to catch the complextriggering signals | |
| Vertical deflection sensitivity | 5mV/Div to 5V/Div in 1-2-5 sequence in 10 steps |
| Accuracy | ±5% |
| Rise Time | 3.5nS |
| Maximum Input Voltage | 400V (DC + AC peak) |
| Operating Systems | CH1, CH2, ADD, DUAL (CHOP,ALT) |
| Trigger mode | AUTO, NORM, TV-V, TV-H |

| | |
|---|---|
| Trigger signal source | INT, CH2, LINE, EXT |
| External trigger input | About 1m.Ohms 25pFimpedance |
| Z-axis maximum input | 30V (DC+AC peak)voltage |
| Bandwidth | DC to 2MHz |
| Sweep Mode | A,B, B Triggered, X-Y, ALT |
| Sweep time | A: 0.05uS to 0.2S/Div ±5% in21 calibrated steps (1-2-5 seq) |
| | B: 0.05uS to 10uS/Div ±5% in 8 calibrated steps (1-2-5 seq) |
| Delay system | Continuous delay or triggereddelay |
| Hold-off | Continuous change for 2 times |
| X-Y Operation mode | CH1 X-axis and CH2 Y-axis |
| Calibration Signal | 0.5V Square wave of 1kHz |
| Auxiliary Power Supply | 230V 50Hz AC |

## Accessories For Oscilloscopes

| |
|---|
| High Voltage Probe to measure AC/DC High Voltage |
| Measures upto 30kV DC and 20kV AC |
| Accuracy: ± 1% |
| Cable Length 1m |

## PC Based Oscilloscopes

| |
|---|
| Two Channel Digital Storage Oscilloscope |
| When connected to PC with USB 2.0 Interface, provides fully featured Digital Storage Oscilloscope |
| Provides extra advantage of easily storing data for future use |
| Has two independent channels. |
| The program screen emulates a conventional oscilloscope |
| The Auto Set function adjusts the settings automatically to the current signal, and the extensive trigger functions make it very simple to operate |
| The expanded spectrum analyzer windows including the FFT analysis and the multi-kinds of measurements are more powerful tools in data analysis |
| Press a button to transfer the on-screen data to an Excelfile for further processing and the waveform can be recalled as a reference for comparison with the new one |

| | |
|---|---|
| Bandwidth | 40MHz |
| Channels | Two + external triggering |
| Sampling Rate | 100MS/sec |
| Memory | 64kB |
| Resolution | 8bit |
| Plug & Play Device | |


| |
|---|
| Two Channel Digital Storage Oscilloscope |
| When connected to PC with USB 2.0 Interface, provides fully featured Digital Storage Oscilloscope |
| Provides extra advantage of easily storing data for future use |
| Has two independent channels. |
| The program screen emulates a conventional oscilloscope |
| The Auto Set function adjusts the settings automatically to the current signal, and the extensive trigger functions make it very simple to operate |
| The expanded spectrum analyzer windows including the FFT analysis and the multi-kinds of measurements are more powerful tools in data analysis |
| Press a button to transfer the on-screen data to an Excelfile for further processing and the waveform can be recalled as a reference for comparison with the new one |

| | |
|---|---|
| Bandwidth | 60MHz |
| Channels | Two + external triggering |
| Sampling Rate | 150MS/sec |
| Memory | 64kB |
| Resolution | 8bit |
| Plug & Play Device | |


| |
|---|
| Two Channel Digital Storage Oscilloscope |
| When connected to PC with USB 2.0 Interface, provides fully featured Digital Storage Oscilloscope |
| Provides extra advantage of easily storing data for future use |
| Has two independent channels. |
| The program screen emulates a conventional oscilloscope |
| The Auto Set function adjusts the settings automatically to the current signal, and the extensive trigger functions make it very simple to operate |

The expanded spectrum analyzer windows including the FFT analysis and the multi-kinds of measurements are more powerful tools in data analysis

Press a button to transfer the on-screen data to an Excelfile for further processing and the waveform can be recalled as a reference for comparison with the new one

| | |
|---|---|
| Bandwidth | 100MHz |
| Channels | Two + external triggering |
| Sampling Rate | 250MS/sec |
| Memory | 1MB |
| Resolution | 8bit |
| Plug & Play Device | |

## PC Based Arbitrary Function Generator And Frequency Counter

| | |
|---|---|
| Signal Frequency Range | 0-5MHz; |
| Frequency Counter Range | 0~2.7GHz |
| Outputs | One channel of Arbitrary Waveform; 8 Bits signal; Synchronized signal |
| Inputs | Two channels of Frequency counter; 8 Bits signal; External Trigger |
| Arbitrary Waveform edited by mouse | |
| General waveforms Sine, Square, Triangle, Saw-tooth, TTL, White Noise, Gauss noise, Exponent, AM, FM | |
| Settable Parameters | Amplitude, Frequency, Offset |
| The data file's format is completely compatible with Tektronix's products and software. It can read directly the data files from and be edited by Tektronix's software. | |
| DDS technology, High accuracy and resolution, wide software supporting, | |


## PC Based Logic Analyzer

It is devoted to the observation of digital signal test and measurement equipment.

It has multi-line oscilloscope and other advantages of automatic test equipment.

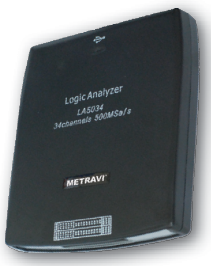
The use of advanced large-scale integrated circuits, integrated USB 2.0, CPLD, FPGA, high-frequency digital circuitry, embedded systems, and other advanced technology

Using plug-and-play USB power supply, compared to the traditional desktop LA5034 with a higher cost performance, portable, easy-to-use, the expansion of the advantages of good, instead of the traditional equipment is the best choice.

It has 500MHz bandwidth, 34 cost-effective channels

It can be used for digital circuit development, measurement, analysis and debugging, electronic research and development, electronic measurement engineers, college students in scientific research and development and teaching assistant.

It also has a variety of new means of measuring equipment.




## Primary Current Injection Test Set

Testing especially if the protective gear is connected to the power line via a current transformer it is advisable to carry out primary injection testing

These sets have been designed to enable the users of heavy electrical equipment to carry out such tests as have been described above with a maximum efficiency at minimum cost, providing a convenient of delivering, controlling and measuring a heavy current in a comparatively low voltage low impedance circuit.

Ideal for testing circuit breakers, ammeters with or without current transformers and much other application where a heavy current supply of short duration is required

| | |
|---|---|
| Current output | Can Vary from 200A to 4000A |
| Capacity | Can Vary from 1kVA to 10kVA |
| Number of Ranges | Can Vary from 1 to 4 |
| Duty Cycle | 10 mins ON and 10 Mins OFF |

## Regrigerant Gas Leakage Detector

Detects all CFC refrigerants such as R-22, R-124, R-11 and R-12

The ultra-sensitive long life sensor detects the more current, difficult-to-detect HFC refrigerants such as R-134a, R-404A, and new R-22 replacements, R-410A and R-407C.

It's long, slim gooseneck probe design is easy to use in close areas and for extending into hard-to-reach areas.

It's adjustable alarm, easy one-hand operation and impact resistance storage case add up to value and convenience

Sensitivity to detect: 100ppm of R-134A/R-22

Response Time < 2 sec

Audio and Visual Alarm


## Relay Test Set

This is a portable testing kit in one unit, suitable for testing protective relay, over current relay, earth fault relay, protective device, circuit breaker, tripping coils etc.

The set is designed for both laboratory and field use.

| | |
|---|---|
| INPUT | 230 Volts, single phase, 50Hz. AC. |
| OUTPUTS | Current Output: |
| | a) 0- 1Amp. At 4/10Volts. |
| | b) 0- 2Amp. At 4/10 Volts. |
| | c) 0- 5 Amps. At 4/10 Volts. |
| | d) 0- 10 Amps. At 4/10 Volts. |
| | e) 0- 20 Amps.at 4/10 Volts. |
| | f) 0- 50 Amps. At 4Volts. |
| | g) 0-100 Amps. At 4 volts. |
| | h) 0-200 Amps At 4Volts. |

| | |
|---|---|
| Current output is continuously variable and the output is taken out through a multi range C.T. The secondary is connected to an ammeter scaled in 0 to 100% | |
| AC Voltage Output | Continuously variable 0 -230V AC. Capacity- 460VA(Max). |
| Fixed AC voltage | 50V &110V. |
| Time Measurement | 0-9.999Secs. & 0-99.99Secs. in two ranges. Accuracy : 1% |

| | |
|---|---|
| This is a portable Relay Testing Set suitable for testing different types like over current, earth leakage relays, circuit breakers of 1A – 5A rating etc. | |
| All the components are assembled and enclosed with a portable air cooled M.S.cabinet | |
| Input | 230V AC 50Hz |
| Output Current | 1A – 5A–10A-20A – 50A-100A-200A. as per output range selection |
| Maximum Capacity | 1200VA |
| Output Voltage | 0 – 240V AC or DC of capacity 1A |
| Built-in digital time interval meter - Checks latching time as well as contact reliability of relay under test | |
| Time Range | 0 – 9.999 Sec & 0 – 99.99 Sec |

| | |
|---|---|
| It is suitable for testing distance relays. | |
| Other relays like over current, over voltage, under voltage, earth fault and relays having directional element can also be tested by this relay test set. | |
| Fault phase voltage adjustable between 0 to 110% | |
| Fault current adjustable between 0 to 100% | |
| Phase angle adjustment & measurement 0° to 360° | |
| Digital time interval meter. | |
| Voltage & current indications by digital meters. | |
| Input Voltage | 415V±10%, 3phase, 4 wire 50HZ AC |
| Output (s) | [a] Test Current : 0 to 1,5, 10, 25A, 50A having 0 to 100% resolution in each tap Rated maximum burden : 500 VA. per phase. |
| Duty Cycle | i ) continuous up to 10A. |
| | ii) 25A, 50A outputs are rated for intermittent duty cycle i.e. 5mins "ON", 10mins "OFF " |
| Test Voltages | AC Voltage source: 0-220 Volts , phase to neutral, 50 HZ AC. |
| Rated maximum burden | 150VA /phase. |
| DC voltage source | Isolated 0-240 volts D.C. with maximum capacity available 1A. |
| Phase Angle Variation | 0 to 3600 in current ckt. |
| Time Measurement | 0-9.999secs. with resolution 1 msec. & 0-99.99sec. with resolution 10 msec |

| | |
|---|---|
| This is a portable Relay Testing Set suitable for testing different types like over current, earth leakage relays, circuit breakers of 1A – 5A rating etc. | |
| All the components are assembled and enclosed with a portable air cooled M.S. cabinet | |
| Input | 415V, Three phase, 4 wire 50HZ. AC. |
| Output Current | 1A- 5A –10A –25 & 50A as per output range selection. |
| Maximum Capacity | 250VA at 50 Amps. |
| Duty Cycle | a) Up to 10A, the loading can be done continuously |
| | b) 50A output is rated for intermittent duty cycle i.e. 5 Minutes |
| Output voltage | Fixed 110V AC ph .to ph .with volt. Control 90%, 100% & 110% |
| Time Measurement | Built in digital time interval meter. Scope to check latching time as well as contact reliability of relay under test. |
| Time range | 0 – 9.999 sec.Resolution 1 msec. |
| | & 0 – 99.99 sec. Resolution10 msec |

## Short Turn Indicator

| |
|---|
| This precise instrument measures AC Resistance and compares it to identical windings, detecting the flaw without having you to dismantle the motor |
| Operates best on ploy phase machines or in machines with more than two identical windings like general motors and transformers |
| Portable, Compact, it is easy to carry. |
| It operates eve on a 9V Battery |
| Sturdy and long lasting this fault detector will see you through the most complex and tough problems |
| This instrument does not require any calculations |

| |
|---|
| A low-cost instrument |
| Solid state, compact meter |
| Detects even a single turn shorting in coils by simply inserting the coil in mandrill with both leads of the coil in open condition |
| 9V battery operated |
| Helpful in mass production of transformer coils, solenoid coil, loudspeaker coil, choke coil, relay coil etc.. |
| Useful in the maintenance of the electronic, electrical instruments |
| LED Version of the meter is also available |

## Solar Power Meter

| |
|---|
| Sunlight Measurement up to 1999W/$m^2$ or 634BTU /($Ft^2$*hr) |
| High Accuracy and Fast Response |
| Data Hold function |
| Unit and sign display for easy reading |
| Measuring unit selectable between W/$m^2$ and BTU/($Ft^2$*hr) |
| Direct Reading with no adjustments |
| Max /Min value recording |
| Low Battery Indication |
| 3-1/2 Digits LCD Display |
| Resolution 1W/$m^2$ ; 1 BTU /($Ft^2$*hr) |
| Accuracy: ± 10W/$m^2$ |


## Sound Level Calibrator

| | |
|---|---|
| Standard Sound Ringing Capabilities at 94dB and 114dB | |
| Can be used for both A Weighting and C WeightingCalibration | |
| Microphone adaptors are provided | |
| Low Battery Indication | |
| Output frequency | 1kHz |
| Accuracy | ±0.5dB |
| Complete with user manual, battery and carrying case | |


## Spectrum Analyzer

| | |
|---|---|
| Frequency range | 0.15--- 1050 MHz |
| Center frequency display accuracy | ±100kHz |
| Marker accuracy | (0.1% span +100kHz) |
| Resolution of frequency display | 100kHz (4.5 digit LED) |
| Frequency scanwidth | 100 kHz/div. to 100MHz/div.in 1-2-5 steps and 0Hz/div.(Zero Scan) |
| Frequency scanwidth accuracy | ±10% |
| Frequency stability | better than 150 kHz/ hour |
| IF Bandwidth (-3dB) | |
| Resolution | 400 kHz and 20 kHz; |
| Video-Filter on | 4 kHz |
| Sweep rate | 43Hz |
| Amplitude range | -100dBm to +13 dBm |
| Screen display range | 80 dB (10dB/div.) |
| Reference level | -27dBm to +13 dBm (in 10dB steps) |
| Reference level accuracy | ±2dB |
| Average noise level | -99dBm (20 kHz BW) |
| Distortion | < -75 dBc: 2nd and 3rd harmonic |
| 3rd order intermod | -70dBc (two signals > 3MHz apart) |
| Sensitivity | <5dB above average noise level |
| Log scale fidelity | ±2dB (without attn.) Ref.: 250MHz |
| Input impedance | 50Ohms |
| Input connector | BNC |
| Input attenuator | 0 to 40 dB (4Å~10dB steps) |
| Input attenuator accuracy | 1dB/10 step |
| Max. input level | +10dBm, ±25V DC (0dB attenuation) |
| | +20dBm, (40dB attenuation) |

| | |
|---|---|
| Frequency range | 0.15--- 1050 MHz |
| Center frequency display accuracy | ±100kHz |
| Marker accuracy | (0.1% span +100kHz) |
| Resolution of frequency display | 100kHz (4.5 digit LED) |
| Frequency scan width | 100 kHz/div. to 100MHz/div. in 1-2-5 steps and 0Hz/div.(Zero Scan) |
| Frequency scan width accuracy | ±10% |
| Frequency stability | better than 150 kHz/ hour |
| IF Bandwidth | (-3dB) |
| Resolution | 400 kHz and 20 kHz; |
| Video-Filter on | 4 kHz |
| Sweep rate | 43Hz |
| Amplitude range | -100dBm to +13 dBm |
| Screen display range | 80 dB (10dB/div.) |
| Reference level | -27dBm to +13 dBm (in 10dB steps) |
| Reference level accuracy | ±2dB |
| Average noise level | -99dBm (20 kHz BW) |
| Distortion | < -75 dBc: 2nd and 3rd harmonic |
| 3rd order intermod | -70dBc |
| (two signals > 3MHz apart) | |
| Sensitivity | <5dB above average noise level |
| Log scale fidelity | ±2dB (without attn.) Ref.: 250MHz |
| Input impedance | 50 Ohms |
| Input connector | BNC |
| Input attenuator | 0 to 40 dB (4x10dB steps) |
| Input attenuator accuracy | 1dB/10 step |
| Max. input level | +10dBm, ±25V DC (0dB attenuation) |
| | +20dBm, (40dB attenuation) |
| Tracking Generator Frequency range | 0.15 MHz to 1050 MHz |
| Output level range | -50dBm to +1dBm (in 10dB steps and var.) |
| Output attenuator | 0 to 40dB (4Å~10dB steps) |
| Output attenuator accuracy | ±1dB |
| Output impedance | 50> (BNC) |
| Frequency response | ±1.5dB |
| Radio Frequency Interference(RFI) | <20dBc |

## Tachometer Calibrator

| |
|---|
| Easy to use calibrator for instant and reliable calibration of Non -Contact tachometers up to 199999 RPM |
| The desired RPM can easily be set using the front panel switches |
| Since RPM is a function of the frequency, the bright White LED flashes at a value nearest to the set RPM and the actual RPM/Frequency is displayed on the 2 Line Backlit alpha numeric LCD display |
| The actual RPM/Frequency is displayed on the 2 Line Backlit alpha numeric LCD display |


## Transistor Tester

| |
|---|
| Mainly used for testing the DC parameters of semiconductors such as diode, transistor, controlled silicon and field effect transistor. |
| It also can be used to test the withstand voltage of capacitor, protection voltage of varistor and isolation of electrical. |
| It can test 78 and 79 series three-terminal voltage regulator |
| Measuring forward voltage, reverse voltage, forward saturation voltage drop,amplification factor, reverse leakage current of various crystal diode, audio, silicon controlled rectifier(SCR), field effect transistor(FET). |
| Measuring rated working voltage of chemical capacitor,terylene capacitor,Ta capacitor,Leaded multilayer ceramic capacitor,high voltage lacker. |
| Measuring protection voltage of varistor. |
| Measuring starting voltage of neon bulb, neon lamp. |
| Measuring constant voltage value of 78,79 series three-pole circuit. |

## Time Totalizer

| | |
|---|---|
| 6 Digit LED Display | |
| Auto-ranging from 9999.99 Sec to 999999Hrs | |
| Ranges can be fixed at | 9999.99 Sec, 99999.9 Sec / Min / Hrs, 99Hr / 59Min / 59 Sec, 9999.99 Sec / Min, 999999 Sec / Min / Hrs (User Selectable) |
| Accuracy | ±0.05% |
| Control Input | Proximity Switches / Contact Clusure (Limit Switch, Relay etc.) |
| Reset | Front Reset / Remove Reset / Auto Reset (Programmable) |
| Memory Retention | For up to 10 yrs |
| Sensor Supply | 12V DC |
| Auxiliary Power Supply | 90V to 270V AC 50/60Hz |
| Size | 96 x 48 mm sq |


| | |
|---|---|
| 6 Digit LED Display | |
| Auto-ranging from 9999.99 Sec to 999999Hrs | |
| Ranges can be fixed at | 9999.99 Sec, 99999.9 Sec / Min / Hrs, 99Hr / 59Min / 59 Sec, 9999.99 Sec / Min, 999999 Sec / Min / Hrs (User Selectable) |
| Accuracy | ±0.05% |
| Control Input | Proximity Switches / Contact Clusure (Limit Switch, Relay etc.) |
| Reset | Front Reset / Remove Reset / Auto Reset (Programmable) |
| Memory Retention | For up to 10 yrs |
| Sensor Supply | 12V DC |
| Auxiliary Power Supply | 90V to 270V AC 50/60Hz |
| Size | 96 x 98 mm sq |


## Transformer Turns Ratio Set

| |
|---|
| Wide measuring range, better resolution, measures percentage ratio & phase error directly, advanced design using integrated circuits, efficient shielding technique, compact in size, phase sensitive null detector, check polarity. |
| Perfectively suitable to measure actual turns ratio of a transformer |
| Measures percentage ratio & Phase errors directly |
| The polarity of the transformer under test is also indicated |
| Measurements are carried out in 10 ranges arranged in a 1, 2,5,10 sequence. |
| The measuring span has a range of ratios from 0.800 to 2021 |
| The ratio resolution is 0.01%. |
| Phase deviation measurements are carried out in two ranges. |
| Accuracy: ±0.1% of reading. |

## Two Color Infra Red Thermometer

| | |
|---|---|
| Two Color Infra Red Thermometer | |
| D:S Ratio | 150:1 |
| Temperature Range | 600-1400 |
| Visual Optical Sighting | |
| Accuracy | ±1% |
| Response Time | Less than 100 ms |
| Adjustable Emissivity 0.10 - 1.00 (1-color) and 0.800 – 1.200 (2-color) | |
| Can work as both single color and two color modes | |
| Peak Hold, Average, Relay Alarm | |
| RS-485 Output for PC Interface | |
| Analogue Output 4 – 20mA | |
| Ideally used for Areas having smoke, steam or dust in the atmosphere | |
| Also ideal for targets where emissivity is changing | |
| Auto Power Off | |
| IP-65 Protection | |

| Two Color Infra Red Thermometer | |
|---|---|
| D:S Ratio | 300:1 |
| Temperature Range | 700-1800 |
| Visual Optical Sighting | |
| Accuracy | ±1% |
| Response Time | Less than 100 ms |
| Adjustable Emissivity 0.10 - 1.00 (1-color) and 0.800 – 1.200 (2-color) | |
| Can work as both single color and two color modes | |
| Peak Hold, Average, Relay Alarm | |
| RS-485 Output for PC Interface | |
| Analogue Output 4 – 20mA | |
| Ideally used for Areas having smoke, steam or dust in the atmosphere | |
| Also ideal for targets where emissivity is changing | |
| Auto Power Off | |
| IP-65 Protection | |

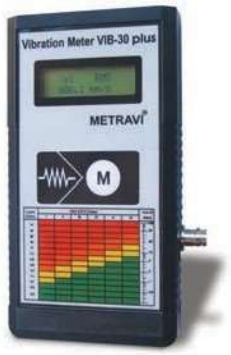
| Two Color Infra Red Thermometer | |
|---|---|
| D:S Ratio | 300:1 |
| Temperature Range | 1000-3000 |
| Visual Optical Sighting | |
| Accuracy | ±1% |
| Response Time | Less than 100 ms |
| Adjustable Emissivity 0.10 - 1.00 (1-color) and 0.800 – 1.200 (2-color) | |
| Can work as both single color and two color modes | |
| Peak Hold, Average, Relay Alarm | |
| RS-485 Output for PC Interface | |
| Analogue Output 4 – 20mA | |
| Ideally used for Areas having smoke, steam or dust in the atmosphere | |
| Also ideal for targets where emissivity is changing | |
| Auto Power Off | |
| IP-65 Protection | |

## Ultrasonic Thickness Gauge

| Micro-controller based | |
|---|---|
| Quick and Precise Measurement of thickness of most of industrial material. | |
| Suitable for measuring materials that are good ultrasonic conductors such as metal, plastic, ceramic, glassetc | |
| Auto calibration to assure the accuracy | |
| Auto linear compensation:this advanced software program enhances the precision by correcting the non-linear accuracy of transducer. | |
| Coupling icon to learn if the coupling is accomplished or not | |
| 10 thickness measurement storage and recall function | |
| Sound velocity measurement | |
| Low battery indication | |
| Auto power off mode | |
| Transducer choice | 10mm 2.5MHz Transducer, |
| 10mm 5.0MHz Transducer | |
| Display | 4-digital LCD display |
| Minimum display unit | 0.1mm |
| Working frequency | 5MHz/2.5MHz |
| Measuring range | 1.2 to 220mm (steel) |
| Minimum limit for tube curvature measurement | 20*3mm (steel) |
| Accuracy | +/-(1%H+0.1)mm, Hdenotes the measured thickness. |
| Sound velocity range | 1000 to 9999m/s |


## Vibration Meter

| Designed as a simple diagnostic tool for preventive maintenance | |
|---|---|
| The instrument and the monitoring technique are based on the recommendations of ISO | |
| Pocket Size, most economical | |
| Low Battery indication | |
| Measuring range | 0.2 to 99.9 mm/s RMS |
| Frequency range | 10 to 1000Hz |
| Resolution | 0.1mm/s |
| Accuracy | ±2% |
| Input Sensitivity | 10pC/m/Sz |
| Power Supply | 9V - 6F22 |
| Display | 3 digit 7 segment LED |
| Vibration Transducer is piezo electric type accelerometer | |
| Sensitivity of transducer | 10pC/m/Sz |




| Measuring Vibration Velocity, Displacement and Acceleration. | |
|---|---|
| True RMS measurement | |
| Sealed Membrane key pad | |
| Suitable for monitoring machinery vibration caused by imbalance, misalignment and gear faults | |
| Micro Controller based | |
| Back Light Display | |
| Auto Power Off | |
| Battery Low Indication with text | |
| Pocket size and Light weight | |
| Displacement Measuring | 0.1- 2800µm (0.0001-2.800mm) PK-PK & RMS |
| Velocity Measuring | 0.1 to 200 mm/s RMS & PEAK-PK |
| Acceleration Measuring Range | 0.1 to 200 m/sz RMS, PK-PK |
| Resolution | 0.1mm/s |
| Accuracy | ± (2% + 0.1mm/s) |
| Frequency response | 10-1000 HZ |


| Pen type Pocket Size instrument | |
|---|---|
| LCD Display | |
| It can measure acceleration, velocity and displacement. | |
| Compact Size.It is light and easy to carry. | |
| Simple Two Key Operation | |
| Auto Power Off facility | |
| Acceleration | 0.01-199.9m/sz (peakvalue) |
| Velocity | 0.01-199.9mm/s(effective value) |
| Displacement | 0.001-1.999mm (peak-peakvalue) |
| Acceleration Frequency Response | 10Hz-1kHz. |
| Velocity Frequency Response | 10Hz-1kHz. |
| Displacement Frequency Response | 10Hz-500Hz |

| | |
|---|---|
| LCD displays measurement result and conditions directly | |
| Measures acceleration (m/sz peak), velocity (mm/s RMS) and displacement (mm p-p) | |
| Selective vibration characteristic | |
| Uses hi- sensitive vibration sensor for accurate measurements | |
| Equipped with two probes (SHORT and LONG) to adapt to the different measurement requirements | |
| Magnetic probe is provided, to be used for holding the sensor in un-easy conditions | |
| Low battery indication | |
| Auto Power Off | |
| Backlit LCD Display | |
| Maximum value Hold function | |
| Measures Temperature in °C /°F | |
| Acceleration | 0.1~199.9m/s² peak |
| Velocity | 0.1~199.9mm/s rms |
| Displacement | 0.001~1.999mm p-p |
| Frequency range of Acceleration | 10Hz ~ 1KHz (LO)<br>1KHz ~ 15KHz (HI) |
| Frequency range of Velocity | 10Hz ~ 1KHz (LO) |
| Frequency range of Displacement | 10Hz ~ 1KHz (LO) |
| Temperature | -10°C to 80°C |
| Battery Operated | |
| Auto Power Off | |
| Signal Output | AC output 2V peak,<br>Earphones can be connected |



| | |
|---|---|
| Micro- processor based diagnostic tool | |
| Direct Indication of machine condition in terms of good- reduced- bad | |
| Mechanical Condition of Bearing | |
| Lubrication condition of Bearing | |
| Damage Severity readings for rolling bearings. | |
| Non-Contact measurements of rotational speed | |
| Vibration Severity measurements according to ISO recommendations. | |
| Bearing Tester Function Range 0 to 99dBpv | |
| Vibration Range 0.1 to 99.9 mm/s RMS | |
| Laser Tachometer range up to 20000 RPM | |
| Bearing Probe, head phone, Accelerometer, tachometer probe, manual, | |
| battery and carrying case | |


## Voltage Transducer

| | |
|---|---|
| Input and outputs are Isolated | |
| Type | DIN RAIL Mounting |
| AC Input | 0 - 3.5, 110, 230,300, 440, 500V,Through PT for Higher Voltages (AnyOne) |
| DC Output | Current(mA) : 4-20 Voltage (V) : 0-10 As per Scale (Other Voltage and |
| current outputs available on request)Single Output isstandard, Dual Output available on request | |
| Auxiliary | Self Powered |
| Accuracy | Standard : ± 0.5% of Span |
| Optional | On Request |


## Video Infra Red Thermometer

| | |
|---|---|
| 2.2"TFTLCDdisplay | |
| 640*480pixels (30millionpixels) | |
| MicroSDmemorycard | |
| Image(JPEG)andvideo(AVI) | |
| Picture and Video of target under test can be taken | |
| Pictures with target sighting, temperature and time stamp | |
| Humidity and AirTemperature measurement | |
| Duallasertargeting | |
| Type-Kthermocoupleprobe | |
| Adjustableemissivity | |
| Highaccuracy | |
| Fastresponsetime | |
| Dew-point temperature and Wet bulb temperature | |
| 50:1 Distance to Sighting Ratio | |
| Temperature Range | -50to 1850"C |
| Adjustable Emissivity | 0.10 to 1.00 |
| Contact type Thermometer with K type Thermocouple measures Range-50to1370"C | |
| Re-chargeable battery and Battery Charger | |
| USB PC Interface | |

## Wheatstone Bridge

| | |
|---|---|
| Useful for measuring Low Resistance values | |
| Range | 0.001 to 11.1M∧ |
| Accuracy | ± 0.05% |
| In-built 4.5V dry battery | |
| Best Quality Manganin Wire is used for coils | |
| In-built high sensitive galvanometer of 20uA/mm | |
| Suitable for Murray & Varlex Loop Test | |
| Optional Light Spot Galvanometer can also be supplied | |

## Weather Station

| |
|---|
| Touch Screen Panel, USB Port for PC Interface |
| All Weather data from the base station and history data with user adjustable measuring intervals can be recorded and uploaded to the PC |
| Rainfall Data |
| Wind Chill and Dew Point Temperature Display |
| Records min. and max. wind chill and Dew Point with time and date stamp |
| Wind Speed (mph, m/s, km/hr, knots, Beaufort) |
| Wind Direction display with LCD Compass |
| Weather forecast tendency arrow |
| Weather alarm modes |
| Storm Warning, |
| Barometric Pressure with 0.1hPa resolution |
| Indoor and Outdoor Humidity |
| Time Zone Setting, Time Alarm |
| Battery Opeated. |

# ELECTRO METER CORPORATION

NABL Accredited Calibration Laboratory

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