

# Color Meter

## TES-135 Color Meter



### Features

- ◆ Check color difference between two samples
- ◆ Color difference displayed in  $\Delta(L^*, a^*, b^*)$ ,  $\Delta(E^*ab, C^*ab, H^*ab)$ ,  $\Delta(Y, x, y)$ ,  $\Delta(X, Y, Z)$  or  $\Delta(Rs, Gs, Bs)$
- ◆ Color space displayed in  $(L^*, a^*, b^*)$ ,  $(L^*, C^*ab, hab)$ ,  $(Y, x, y)$ ,  $(X, Y, Z)$  or  $(Rs, Gs, Bs)$ .
- ◆ MAX, MIN & AVG functions
- ◆ Software with Mini-USB cable
- ◆ Tolerance function
- ◆ Auto Memory (99 sets) & Read function

- **Display:** Triple 4 digit LCD display
- **Illuminating / Viewing geometry:** 45° / 0° - 1 illumination at 45°, measurement at 0°
- **Measuring area:** Approx.  $\phi$  2mm
- **Target color memory:** 8 channel; set by measurement or keypad
- **Measuring range:** L\*: 10 to 100
- **Measurement conditions:** Observe: CIE 2° Standard Observer. Illuminant: White LED lamp.
- **Repeatability:** Standard deviation within  $\Delta E^*ab$  0.5
- **Auto data Memory & Read:** 99 sets
- **Auto Power off:** Approx. 3 minutes

# Hot-Wire Anemometer

## TES-1340 / 1341 Hot-Wire Anemometer



### Features

- ◆ Air Velocity / Air Volume (CFM / CMM)
- ◆ Instant / Avg / 2/3 Vmax Flow Measurement
- ◆ Velocity m/s, ft/min, knots, km/hr, mph
- ◆ Data hold & Max/Min with time stamp

- ◆ Fast Response / Telescopic Probe
- ◆ Manual Data Memory and Read function (99 sets)
- ◆ Stand-alone Datalogging Capacity 20,000 sets (TES-1341)
- ◆ Relative Humidity Measurement, DEW point & Wet bulb function (TES-1341)
- ◆ Software via USB cable (TES-1341)

	Measuring Range	Resolution	Accuracy
Air Flow	0.1 to 30.0 m/s	0.01 m/s	± 3% of reading ± 1%FS
	0.2 to 110 km/hr	0.1 km/hr	
	10 to 6000 ft/min	1 ft/min	
	0.1 to 59 knots	0.01 knots	
	0.12 to 68 MPH	0.01 MPH	
Air Flow Volume	0 to 999900 CFM	0.001 CFM	
	0 to 999900 CMM	0.001 CMM	
Temperature	-20°C ~ +60°C	0.1°C, 0.1°F	± 0.5°C, ± 0.9°F
	-4°F ~ +140°F		
Humidity	0 to 100%RH	0.1% RH	± 3%RH

# Luminous Flux Meter

## TES-133 Luminous Flux Meter



### Ideal for:

- ◆ LEDs, Optical Fiber lamps, Small lamps

### Features

- ◆ Measuring range : 0.05 ~ 7000 lumens
- ◆ Comparator function
- ◆ RS-232 Interface / Software
- ◆ Data Memory : 999 sets (Direct reading from LCD display)
- ◆ Data Logging function : 40,000 sets

- **Display:** 4 digit LCD read out
- **Range:** 9.999, 99.99, 999.9, 7000 lumens. Auto ranging (4 Steps)
- **Resolution:** 0.001 lumens
- **Accuracy:** 0.05 ~ 0.1 - ± 7%, 0.1 ~ 1000 - ± 1%, 1000 to 7000 - ± 3%
- **Integrating Sphere:** Diameter: 50mm Sample pore: 12.7mm diameter
- **CIE photopic f' 1:** ≤ 6%
- **Temperature Characteristics:** ± 0.1%/°C
- **Data Memory Capacity:** 999 sets
- **Data Logger Capacity:** 40,000 sets

# Solar Module Analyzer

## Prova 200 Solar Module Analyzer



### Features

- ◆ I-V Curve Test for Solar Cell.
- ◆ Single Point I-V Test.
- ◆ Maximum Solar Power (Pmax) search by auto-scan (60V, 6A).
- ◆ Maximum Voltage (Vmaxp) at Pmax.
- ◆ Maximum Current (Imaxp) at Pmax.
- ◆ Voltage at open circuit (Vopen).
- ◆ Current at short circuit (Ishort).
- ◆ I-V curve with cursor.
- ◆ Efficiency (%) calculation of solar panel.
- ◆ Scan delay (parameter) setting. (0 ~ 9999 mS)
- ◆ Real time data logging.
- ◆ Solar panel dimension (parameter) setting. (0.001 m<sup>2</sup> ~ 9999 m<sup>2</sup>)
- ◆ Standard light source (parameter) setting. (10 W/m<sup>2</sup> ~ 1000 W/m<sup>2</sup>)
- ◆ Min. power (parameter) setting and alarm. (1.000 mW ~ 100.0 W)
- ◆ Rechargeable batteries; LCD displays low battery.
- ◆ RS232C (to USB Bridge) cable for PC.
- ◆ Option: portable thermal printer (model: 300XP) to print (hardcopy) the LCD displays of Solar Module Analyzer.

## Prova 210 Solar Module Analyzer



### Features

- ◆ I-V Curve Test for solar module.
- ◆ 60V and 12A Capability.
- ◆ Maximum Solar Power (Pmax) search by auto-scan.
- ◆ Maximum Voltage (Vmaxp) at Pmax.
- ◆ Maximum Current (Imaxp) at Pmax.
- ◆ Voltage at open circuit (Vopen).
- ◆ Current at short circuit (Ishort).
- ◆ I-V curve with cursor.
- ◆ Data logging function to analyze solar power characteristics over a period of time.
- ◆ Efficiency (%) calculation of solar panel.
- ◆ Scan delay setting. (0 ~ 3000 mS)
- ◆ Solar panel area setting. (0.001 m<sup>2</sup> ~ 9999 m<sup>2</sup>)
- ◆ Standard light source setting. (10 W/m<sup>2</sup> ~ 1000 W/m<sup>2</sup>)
- ◆ Min. power setting for alarm function.
- ◆ Built-in Calendar Clock.
- ◆ Rechargeable lithium battery with built-in charging circuit.
- ◆ Optical USB cable for PC.
- ◆ Option: portable thermal printer (model: 310XP or 300XP) to print (hardcopy) the LCD displays of Solar Module Analyzer.

# Solar Power Meter

## TES-1333 / TES-1333R Solar Power Meter



### Features

- ◆ Wide spectral range
- ◆ Excellent long term stability
- ◆ Cosine corrected
- ◆ Automatic transmission measurements
- ◆ Select either power or transmission
- ◆ Solar energy measurement
- ◆ Current time setting function
- ◆ User calibration factor setting function
- ◆ End-mount light sensor
- ◆ Select either W/m<sup>2</sup> or Btu/(ft<sup>2</sup> x h) units
- ◆ Data Hold / MAX / MIN / AVE modes
- ◆ Data Memory and Read function (99 sets)
- ◆ Auto Data Memory and RS232 interface to PC (TES-1333R)

### Applications

- Meteorology
- Agriculture
- Solar radiation measurement
- Solar power research
- Physics and optical laboratories
- Solar transmission measurement
- Identify high performance windows

## TES-SS1 Solar Power Development System



### Includes

- ◆ Prova 200 Solar Module Analyzer
- ◆ Prova 800 Multi-Input Thermometer / Datalogger
- ◆ Prova 8300 Light Radiation Controller

### Features

1. Control halogen lamp (or other light source) to emulate sunlight irradiance
  2. Low cost for educational purpose
  3. Standard pyranometer (sunlight sensor) to show true irradiance
  4. User Friendly Interface
- ◆ Solar Cell / Module Table Specifications

1. Dimension: 300 (L) x 300 (W) x 420 (H) mm / 11.8" x 11.8" x 16.5"
2. Height from Halogen Lamps to table base:
  - \* Adjustable from 90mm to 30cm
  - \* Standard: 150mm
3. Solar Cell / Module for measurement: max. 300 x 250mm / 11.8" x 9.8"
4. Light sensor: 0 ~ 1500m/w<sup>2</sup>
5. with K-type Thermocouple
6. with Halogen Lamp (Simulation of Sun Light): DC 12V, 50W x 3 pcs
7. Input Voltage (for Halogen Lamps): DC 0V ~ 40V

## Milli / Micro-Ohmmeter

### Prova 700 / 710 Milli / Micro-Ohmmeter



### Features

- ◆ Max. Test current: 5A (Prova 700)
- ◆ Max. Test Current: 10A (Prova 710)
- ◆ Four Terminal Kelvin measurement.
- ◆ Best resolution 1  $\mu\Omega$ .
- ◆ Basic accuracy 0.25%.
- ◆ Manual or Auto Range.
- ◆ Measurement of resistive and inductive materials.
- ◆ Readings Hold function.
- ◆ Cable length measurement
- ◆ Large LCD (5-digit) with backlight
- ◆ Low battery (voltage) alarm.

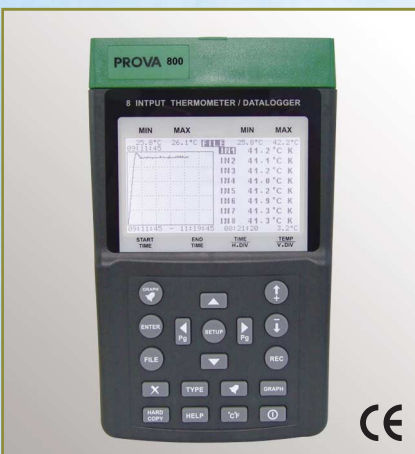
- ◆ Low Power consumption
- ◆ Rechargeable batteries and AC adaptor:
  - Prova 700: Rechargeable batteries
  - Prova 710: Rechargeable lithium battery
- ◆ RS232C (to USB bridge) cable
- ◆ Built-in calendar clock
- ◆ Built-in batteries charging circuit

### Application

- Coil resistance of Electric motor
- Contact resistance of Switch and Relay
- Resistance of Bus bar, Breaker, Fuse, Inductance and Shunt

## 8 Input Thermometer / Datalogger

### Prova 800 8 Input Thermometer / Datalogger



### Features

- ◆ 8 input temperature measurement/logging (°C/°F)
- ◆ Graphic display of each input
- ◆ 11 types of thermocouple (K, J, E, T, R, S, N, L, U, B, C)
- ◆ Easy thermocouple mini connector
- ◆ Basic accuracy 0.05%  $\pm$  1°C (K type)
- ◆ Sampling Rate: 1 sec./8 input
- ◆ Programmable Hi-Lo alarm for 8 inputs
- ◆ Display of max and min values of 8 inputs
- ◆ Standard 2G SD memory card (stores 3.8-year data)

- ◆ Optional 8G SDHC memory card
- ◆ SD card directly read by PC
- ◆ Easy data file management (Read and Delete functions)
- ◆ Built-in calendar clock
- ◆ Independent Input Setup (type of thermocouple, Hi-Lo alarm values, name of Engineering Unit)
- ◆ Isolated Input Protection of 350Vp-p between any two inputs
- ◆ Programmable Engineering Unit (E.U.) to integrate Analog Output (-50 to 50mV) from instruments
- ◆ Screen hardcopy into files
- ◆ Paperless Recorder

### Prova 830 Portable Paperless Recorder



#### Features

- ◆ 5.7" Color TFT LCD (320 x 240)
- ◆ 8 input temperature measurement/logging (°C/°F)
- ◆ Color Graphic display of 8 curves
- ◆ Digital and analog (bargraph) data display
- ◆ Selection of 11 types of thermocouple
- ◆ Easy thermocouple mini connector
- ◆ Basic accuracy 0.05% ± 1°C (K type)
- ◆ Programmable Hi-Lo alarm with timers
- ◆ Statistics data (Histogram) for easy analysis
- ◆ Hide or display selected curves
- ◆ Display of max and min values for each input
- ◆ Sampling Rate 8 inputs / 1 second
- ◆ 28 Hours Recording with Lithium Battery of 3400mAH
- ◆ Standard 2G SD memory card
- ◆ SD card directly read by PC
- ◆ Read and Delete data files directly
- ◆ Built-in calendar clock
- ◆ Accept Analog Output from instruments
- ◆ Screen hardcopy for easy documentation
- ◆ Ready to use package (Thermocouples, SD card, and Battery)

### TES-1384 4 Channels Thermometer / Datalogger



#### Features

- ◆ Isolated Input Protection of 350Vp-p between any two inputs
- ◆ 0.05% Accuracy.
- ◆ K, J, E, T, R, S, N, L, U, B, C Thermocouple Input
- ◆ Display T1, T2, T3 & T4 Simultaneously
- ◆ Programmable Hi-Lo alarm for 4 inputs
- ◆ MAX, MIN, Max-Min & AVG values
- ◆ Independent Input Setup (type of thermocouple, Hi-Lo alarm values)
- ◆ Data Memory and Read function (99 sets)
- ◆ Datalogging Capacity (512 KB)
- ◆ Software with USB cable

## RS-232 Video Converter

### VT-01 RS-232 Video Converter



#### Features

- ◆ Display Measurement Reading on the LCD panel without Personal Computer
- ◆ Easy, Simple and cost effective
- ◆ Public information display from measuring instrument

#### Idea for

- ◆ CO2 Meter
- ◆ Temperature Humidity Meter
- ◆ Sound Level Meter

#### Specifications

- ◆ **Input:** RS-232 serial port (Male)
- ◆ **Output:** VGA display port
- ◆ **AC Adapter:** 5V, 2.5A

# Anemometer

## AVM-01/03 Anemometer



### Features

- ◆ Sensitive for low/high air velocity
- ◆ Ergonomic Design
- ◆ Detachable 52mm (diameter) Vane Head
- **Range:** ( $\pm 3\%rdg \pm 0.1$ )  
M/S: 0.0~45.0 (Meter/per Sec.)  
KNOTS: 0.0~88.0  
Ft/min: 0~8800  
Km/hr: 0.0~140.0  
Temperature (AVM-03): 0~60°C (32~140°F)

## AVM-05/07 Flow Anemometer



### Features

- ◆ Flow (CFM, CMM)
- ◆ Instant/Ave/2/3 Vmax Flow Measurement
- ◆ Velocity m/s, ft/min, knots, km/hr, mph
- ◆ Memory of 2000 Records (AVM-07)
- ◆ RS-232 (AVM-07)
- **Range:** ( $\pm 3\%rdg \pm 0.1$ )  
M/S: 0.0~45.0 (Meter/per Sec.)  
KNOTS: 0.0~88.0  
Ft/min: 0~8800  
Km/hr: 0.0~140.0  
Mph: 0.0~100.0  
Wind Temperature :  
0~45°C (32~113°F)  
( $\pm 1.0^\circ C / \pm 1.8^\circ F$ )
- **Operation Temperature:** 0°C~50°C
- **Display:** 3 1/2 Digits Dual Display LCD

## AVM-301 / 303 / 305 Anemometer



### Ideal for

- Ventilation survey
- Air-conditioning / Heating
- Sports recreational
- ◆ Lower Power Consumption (6mA)
- ◆ Max/Min/Ave and Data hold function

### Features

- ◆ Sensitive for low air velocity
- ◆ Ergonomic Design
- ◆ Detachable 52mm (diameter) Vane Head
- ◆ 1.8 meters coiled cable/back mounting screw for long extension
- ◆ RS-232C interface (AVM-303/305 only)
- ◆ Optional portable thermal printer (AVM-303/305 only)
- ◆ Air Temperature Measurement (AVM-305 only)

Units	Range	Resolution	Threshold	Accuracy
M/s	0.0~45.0	0.01	0.3	$\pm 3\% \pm 0.2$
ft/min	0~8800	0.01/0.1/1	60	$\pm 3\% \pm 40$
knots	0.0~88.00	0.01/0.1	0.6	$\pm 3\% \pm 0.4$
Km/hr	0.0~160.0	0.01/0.1	1.0	$\pm 3\% \pm 0.8$
mph	0.0~100.0	0.01/0.1	0.7	$\pm 3\% \pm 0.4$

# Battery Tester

## TES-32 Battery Capacity Tester



### Features

- ◆ Right Device to know the "True Life" of your battery capacity. (Resistive/Voltage)
- ◆ On-line testing without shutting down battery
- ◆ Built in Comparator
- ◆ RS-232 Interface & Software
- ◆ Datalogging function

### Battery Types Tested:

Compact storage battery, Alkali and lead-acid batteries.

- **Frequency:** 1KHz
- **Accuracy:** ± 10%

	Ω	V
Range	40m Ω, 400m Ω, 4Ω, 40Ω	4V, 40V
Resolution	10μΩ, 100μΩ, 1m Ω, 10m Ω	1mV, 10mV
Accuracy	± (1% + 8dgt)	± (0.1% + 6dgt)

## TES-33 Battery Capacity Tester



### Features

- ◆ Test Condition Without Shutting Down Battery
- ◆ Simultaneously Measure Battery Resistance, Voltage, Current & Temperature
- ◆ Auto-hold and Auto-data storage
- ◆ Rates Conditions as Pass, Warning, or Fail
- ◆ Memory and Read function
- ◆ Datalogging function
- ◆ Compact and Light weight
- ◆ Manual Data Memory: 999 sets
- ◆ Continuous Data Memory: 6000 sets

### RS-232 Interface / Software

### Battery Types Tested:

Compact storage batteries, Alkaline and lead-acid batteries

- **Battery Capacity:** 0 to 1200AH
- **Resistance:** 4mΩ, 40mΩ, 400mΩ, 4Ω, 40Ω, 400Ω
- **Measurement Condition:** Current: Approx. 40mA, 4mA, 400 μA, 40 μA, 4 μA  
Frequency: 1KHz ± 30Hz
- **DC Voltage:** 6V, 60V
- **Temperature:** -20°C ~ 60°C (-4°F ~ 140°F)
- **DC Current:** 600A
- **Open Circuit Voltage:** 5V max

# Calibrator

## Prova 100 4-20 mA Loop Calibrator



### Features

- ◆ 4-20 mA (1kΩ load, 24V Loop Supply)
- ◆ 0-24V output
- ◆ Easy Key-pad Operation
- ◆ Auto Step and Auto Ramp Functions
- ◆ 0-20mA, 0-24mA selectable
- ◆ 0-100% Input, step up and down
- ◆ Beeper Warning when Output is Open

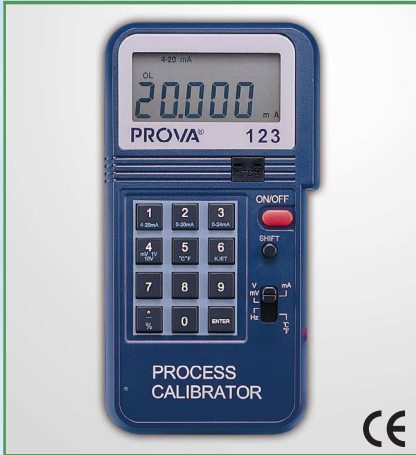
Range	Resolution	Accuracy
0-4mA	1 μA	± 0.025% + 10 μA
4-24mA	1 μA	± 0.025% + 5 μA

Beeper warning when output is open and specified output > 1mA

Range	Resolution	Accuracy
0-4V	1mV	± 0.05% + 10mV
4-24V	1mV	± 0.05% + 5mV

Beeper warning when output is short and specified output > 100mV

### Prova 123 Multifunction Calibrator



#### Features

- ◆ 4-20mA (1K  $\Omega$  load, 24V Loop Supply)
- ◆ 0~100.00mV, 0~1.0000V, 0~12.00V
- ◆ K.J.E.T. Thermocouples ( $^{\circ}$ C &  $^{\circ}$ F)
- ◆ Frequency 1~62,500 Hz
- ◆ 0.025% Basic Accuracy
- ◆ Easy Key-pad Operation
- ◆ Easy Step & Auto Ramp Functions
- ◆ 0~20mA, 0~24mA selectable
- ◆ 0~100% Input (mA, mV, V)
- ◆ Beeper warning when output is open (mA) or short (mV, V)

mA DC Current (1k $\Omega$  Max. Load, 24V Loop Supply)

Range	Resolution	Accuracy
0~24mA	1 $\mu$ A	$\pm$ 0.025% $\pm$ 3 $\mu$ A

Beeper warning when output is open and specified output >1mA

mV, V DC Voltage (1mA Supply Current)

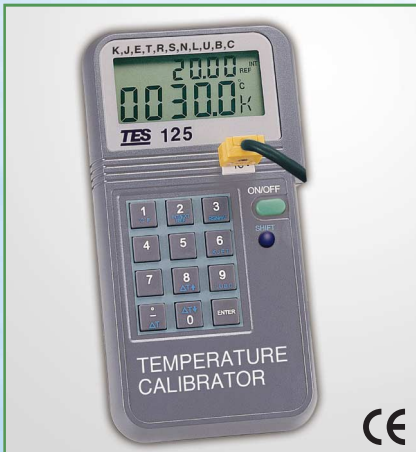
Range	Resolution	Accuracy
0~100.00mV	10 $\mu$ V	$\pm$ 0.05% $\pm$ 30 $\mu$ V
0~10.000V	1mV	$\pm$ 0.05% $\pm$ 3mV
0~1.0000V	100 $\mu$ V	$\pm$ 0.05% $\pm$ 300 $\mu$ V

Beeper warning when output is short and specified output >10mV

K, J, E, T Type (1 $^{\circ}$ C, 1 $^{\circ}$ F Resolution, 1k $\Omega$  load Min.)

Range	Typical Accuracy
K: -200~1370 $^{\circ}$ C/-328~2400 $^{\circ}$ F	$\pm$ 0.8 $^{\circ}$ C/ $\pm$ 1.5 $^{\circ}$ F
J: -100~760 $^{\circ}$ C/-148~1400 $^{\circ}$ F	$\pm$ 0.7 $^{\circ}$ C/ $\pm$ 1.2 $^{\circ}$ F
E: -100~700 $^{\circ}$ C/-148~1292 $^{\circ}$ F	$\pm$ 0.7 $^{\circ}$ C/ $\pm$ 1.2 $^{\circ}$ F
T: -200~400 $^{\circ}$ C/-328~752 $^{\circ}$ F	$\pm$ 0.8 $^{\circ}$ C/ $\pm$ 1.5 $^{\circ}$ F

### Prova 125 Thermocouple Calibrator



#### Features

- ◆ 11 Types of Thermocouples (K, J, E, T, R, S, N, L, U, B, C) and mV
- ◆  $^{\circ}$ C,  $^{\circ}$ F, High Accuracy
- ◆ 0.1 $^{\circ}$ C, 0.1 $^{\circ}$ F Resolution
- ◆  $\Delta$  T function, Easy INCREMENT& DECREMENT
- ◆ Ideal for: R&D Laboratory, Production Line and Service & Calibration
- **Display:** 4+5 Digits

Range	Typical Accuracy
K: -200~1,370 $^{\circ}$ C/-328~2,498 $^{\circ}$ F	$\pm$ 0.4 $^{\circ}$ C/ $\pm$ 0.7 $^{\circ}$ F
J: -200~1,050 $^{\circ}$ C/-328~1,922 $^{\circ}$ F	$\pm$ 0.4 $^{\circ}$ C/ $\pm$ 0.7 $^{\circ}$ F
E: -150~800 $^{\circ}$ C/-238~1,472 $^{\circ}$ F	$\pm$ 0.4 $^{\circ}$ C/ $\pm$ 0.7 $^{\circ}$ F
T: -200~400 $^{\circ}$ C/-328~752 $^{\circ}$ F	$\pm$ 0.4 $^{\circ}$ C/ $\pm$ 0.7 $^{\circ}$ F
R: 0~1,760 $^{\circ}$ C/32~3,200 $^{\circ}$ F	$\pm$ 0.5 $^{\circ}$ C/ $\pm$ 0.9 $^{\circ}$ F
S: 0~1,760 $^{\circ}$ C/32~3,200 $^{\circ}$ F	$\pm$ 0.5 $^{\circ}$ C/ $\pm$ 1.0 $^{\circ}$ F
N: -200~1,300 $^{\circ}$ C/-328~2,372 $^{\circ}$ F	$\pm$ 0.4 $^{\circ}$ C/ $\pm$ 0.7 $^{\circ}$ F
L: -200~900 $^{\circ}$ C/-328~1,652 $^{\circ}$ F	$\pm$ 0.4 $^{\circ}$ C/ $\pm$ 0.7 $^{\circ}$ F
U: -200~600 $^{\circ}$ C/-328~1,112 $^{\circ}$ F	$\pm$ 0.4 $^{\circ}$ C/ $\pm$ 0.7 $^{\circ}$ F
B: 600~1,820 $^{\circ}$ C/1,112~3,308 $^{\circ}$ F	$\pm$ 0.5 $^{\circ}$ C/ $\pm$ 0.9 $^{\circ}$ F
C: 0~2,310 $^{\circ}$ C/32~4,190 $^{\circ}$ F	$\pm$ 0.4 $^{\circ}$ C/ $\pm$ 0.8 $^{\circ}$ F

### TES-1356 Sound Level Calibrator



#### Features

- ◆ 94dB and 114dB Sound Calibration at 1KHz
- ◆ Fits 1", 1/2" or 1/4" diameter microphone
- ◆ Conforms to ANSI S1.40-1984 and IEC942-1988 Class 2.

- **Output sound-pressure levels:** 114dB and 94dB re 20  $\mu$ Pa under reference conditions
- **Output frequency:** 1000Hz  $\pm$  4%
- **Reference condition:** Temperature  $\rightarrow$  20 $^{\circ}$ C (68 $^{\circ}$ F)
- **Atmospheric Pressure:** 1013mbar (760mm par Hg)
- **Relative humidity:** 65%
- **Accuracy:**  $\pm$  0.5dB

# Capacitance Meter

## TES-1500 Capacitance Meter



### Features

- ◆ 0.5% Accuracy
- ◆ Overload Fuse protection
- ◆ Test Clips/Direct insert jack for easy measure
- **Range:** 200pF/2nF/20nF/200nF/2μF/20μF/200μF/2000μF/20mF
- **Measurement Voltage:** 4.5V max.
- **Test frequency:** 8/80/800 Hz
- **Principle:** Dual Slop Integration
- **Zero Aro Adjustment:** ± 20pF Approx.

# CO / CO<sub>2</sub> Analyzer

## TES-1370 CO<sub>2</sub> Analyzer



### Features

- ◆ Data Memory and Read function
- ◆ Continuous or manual data logging and reading
- ◆ Data hold & Max/Min with Time stamp
- ◆ Alarm & Time setting
- ◆ Maintenance free dual wave-length NDIR infrared CO<sub>2</sub> sensor (non-dispersive infrared)
- **Measuring Range:**  
CO<sub>2</sub>: 0~6,000 ppm  
Temp.: -20~ 60°C / -4 ~ 140°F  
Humidity: 10% ~ 95%RH
- **Resolution:**  
1ppm, 0.1°C/0.1°F, 0.1%RH
- **Accuracy:**  
CO<sub>2</sub>: ± 3% of reading or ± 50ppm, which is greater  
Temp.: ± 0.5°C / ± 0.9°F  
Humidity:  
± 3%RH (at 25°C, 30 ~ 95%RH)  
± 5%RH (at 25°C, 10 ~ 30%RH)
- **Manual Data Memory Capacity:**  
99 sets
- **Auto Memory Capacity:**  
20,000 sets  
TES-1370A (220V),  
TES-1370B(110V)

## TES-1372 / 1372R CO Analyzer



### Features

- ◆ CO Range: 0 ~ 999 ppm (CO)
- ◆ Max Hold with Time Stamp / STEL,TWA
- ◆ Alarm level Setting
- ◆ Replaceable Sensor extends meter life
- ◆ Stabilized electrochemical CO sensor
- ◆ Automatic sensor zeroing upon start-up
- ◆ Auto Power-off time setting
- ◆ Typical three year sensor life, one year calibration cycle
- ◆ Manual Data memory (999 sets)
- ◆ Auto Datalogger (10,000 sets) (1372R)
- **Range:** 0 ~ 999 ppm
- **Resolution:** 1 ppm
- **Accuracy:** ± 5% of reading or 2ppm, which is greater
- **Sensor Type / Life:** Stabilized electrochemical Gas-specific / 3 years
- **Manual Data Memory Capacity:**  
999 sets (Direct reading from LCD display)
- **Auto Data Memory Capacity:**  
10,000 sets (Only downloaded by PC) (1372R)



### CM-07 TRMS AC/DC Clamp Meter



#### Features

- ◆ High Resolution DC 10mA, AC 1mA
  - ◆ True RMS reading
  - ◆ Non-contact Current Frequency Measurement
  - ◆ 23mm Large Jaw Diameter
  - ◆ One Touch Zero for DCA adjustment
  - ◆ Large 3 3/4 Digits LCD(4000 counts)
  - ◆ Fast Analog Bargraph Display
  - ◆ Max/Min, Data Hold
- **AC/DC Current:**  
40A/150A/200A/400A (DC)  
4A/40A/100A/200A/400A (AC)
  - **Frequency:** 99.99~99.9K Hz

### Prova 11 AC/DC mA TRMS Clamp Meter



#### Features

- ◆ Super High Resolution-DC/1 mA, AC/0.1mA
  - ◆ True RMS
  - ◆ One Touch Zero for DCA
- **AC/DC Current:**  
0~4A/30A(DC)  
400mA/4,000mA/30A(AC)
  - **AC/DC Voltage:** 400 V

### Prova 1200 DC/AC Clamp Meter



#### Features

- ◆ 1,200A AC/DC current measurement
  - ◆ Integrated current probe for waveform observation or recording
  - ◆ One touch zero for DCA adjustment
  - ◆ Fast bargraph display (20 times/sec.) for transient observation
  - ◆ Max/Min and Data hold function
  - ◆ Ideal for works in crowded switch box or cable areas
- **DC Current:** ( $\pm 2.0\% + 3$  dgts)  
0~400A (0.1A), 0~1200A (1A)
  - **AC Current:**  
0~400A (0.1A), 0~1200A (1A)  
 $\pm 2.0\% + 3$  dgts — 50/60 Hz  
 $\pm 3.0\% + 4$  dgts — 40~400 Hz
  - **Analog Output:**  
AC/DC: 1 mV/A (0~400A)  
AC/DC: 0.1 mV/A (0~1200A)

### Prova 15 AC/DC mA Current Probe



#### Features

- ◆ High Resolution DC 1mA, AC 0.1mA
  - ◆ Connect to an Oscilloscopes to observe Current Waveform
  - ◆ Connect to Chart Recorder / Datalogger/ DMM to Record Current Data
  - ◆ One touch Zero for DCA
- **AC /DC Current:**  
400mA/4A/30A
  - **Sensitivity:**  
0.1mV/ 0.1 mA  
0.1mV/1 mA  
0.1 mV/10 mA

### Prova 2000/2003 Clamp Meter



#### Features

- ◆ DC 2500A, AC 2100A
  - ◆  $\phi$  55mm, Bus Bar 65mmx24mm
  - ◆ True RMS (Prova 2000)
  - ◆ Auto Range A, V,  $\Omega$ , Hz
  - ◆ DCA One Touch Zero
  - ◆ Diode Test
  - ◆ Continuity
  - ◆ Max/Min/Hold
  - ◆ Relative Measurement
- **Current: (AC/DC)**  
DC~400A/2500A  
AC~400A/2100A
  - **Current Analog Output:**  
400A/2,100A(1mV/A)
  - **Voltage: (AC/DC)**  
DC~400m/4V/40V/400V/600V  
AC~4V/40V/400V/600V
  - **Frequency: (Hz)** 100~1,000KHz

### TES-3010/3012 Prof. Clamp Meter



#### Features

- ◆ Frequency Count, Diode Check & Beeper
  - ◆ Peak/Data Hold
  - ◆ Unit & Sign Display
- **Current: (AC)**  
20/200/600A (TES-3010)  
20/200/600/1,000A (TES-3012)
  - **Voltage: (AC/DC)**  
DC-1,000V; AC-200V/750V
  - **Frequency: (Hz)** 2KHz
  - **Ohms: (Resistance)** 200  $\Omega$  /20K  $\Omega$

### TES-3082 TRMS AC/DC Clamp Meter



#### Features

- ◆ True RMS Reading
- ◆ 4000 count Reading
- ◆ AC/DC 600A
- ◆ DCA One-touch-Zero
- **Current:** (DC/AC)  
( $\pm 1.9\%rdg \pm 5dgts$ )  
400A/600A
- **Voltage:** (DC/AC)  
DC-600V; AC-400V/600V
- **Resistance:** (Ohms)4K $\Omega$
- **Frequency:** (Aurorange)  
4KHz/20KHz

### TES-3091N AC Clamp Meter (Non-Contact Voltage detection)



#### Features

- ◆ NCV function (Non-contact voltage detection).
- ◆ 3-3/4 Digital LCD, 4000 count
- ◆ Data hold function
- ◆ Auto power off (15 minutes)
- ◆ Auto ranging
- **AC Current:**  
Range: 40A, 400A  
Resolution: 0.01A, 0.1A  
Accuracy:  $\pm (2\%rdg + 10dgts)$
- **DC/AC Voltage:**  
Range: 400V, 600V  
Resolution: 0.1V, 1V  
Accuracy:  
DC:  $\pm (1\%rdg + 5dgts)$   
AC:  $\pm (1.5\%+10) - 50 \sim 60Hz$   
 $\pm (3\%+15) - 400Hz$
- **Ohms:** 400 $\Omega$   
Resolution: 0.1 $\Omega$   
Accuracy:  $\pm (1\%rdg+5dgts)$
- **Continuity beeper:**  $\leq 60\Omega$

### TES-3092 AC/DC Clamp Meter (700A AC/DC)



#### Features

- ◆ Compact & Pocket Size
- ◆ AC 700A & DC 800A
- ◆ 600V AC & 200V DC Ohm/Continuity Beeper.
- ◆ One Touch DAC Zero
- **DC/AC Current:**  
200A/800A (DCA)  
200A/700A (ACA)
- **DC/AC Voltage:**  
200V (DCV)  
600V (ACV)
- **Ohms:** 2K $\Omega$
- **Resolution:** 0.1 A/1A, 0.1V/1V

# Earth / Ground Tester

## Prova 5601/5637 Clamp-on Ground Resistance Tester

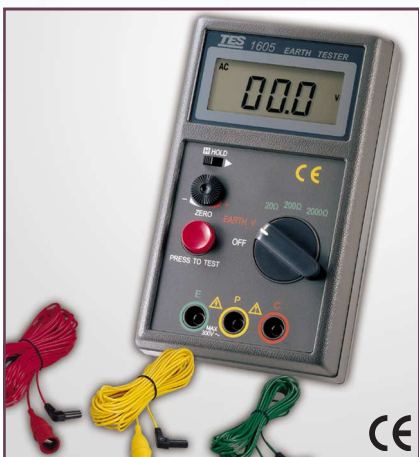


### Features

- ◆ Non-Contact Ground Resistance Measurement
- ◆ No Auxiliary Electrode Needed
- ◆ Jaw Diameter  $\Phi$  23mm (5601)
- ◆ Jaw Diameter  $\Phi$  35mm (5637)
- ◆ 0.2mA~30A (5601), 0.2mA ~ 35A (5637), True RMS
- ◆ 116 Sets of Memory
- ◆ Programmable High and Low Alarm
- ◆ Programmable Data Logging

- **Ground Resistance:**  
0.025~0.250/0.250~1.000/  
1.001~9.999/10.00~50.00/  
50.01~100.0/100.1~200.0/  
200.1~400.0/400.0~600.0/  
600.1~1500  $\Omega$
- **Ground/Leakage Current:**  
(Aurorange, 50/60Hz, True RMS,  
Crest factor<3.5)  
0.200~1.000/1.00~10.00/  
10.0~100.0/100~1000mA  
0.20~15.00A/15.00~30.00A (5601)  
0.20~35.00A(5637)

## TES-1605 Digital Earth Tester

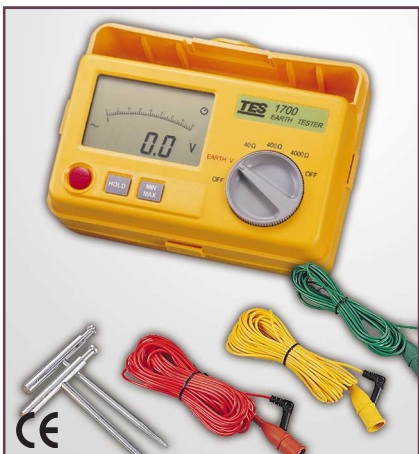


### Features

- ◆ Earth Resistance (20 $\Omega$ /200 $\Omega$ /2000 $\Omega$ )
- ◆ Zero ohm adjustment
- ◆ Capable of measuring earth voltage
- ◆ Data hold function
- ◆ Auto power off function

- **Earth voltage:**  
0.1V,  $\pm$ (1% + 4)
- **Earth Resistance:**  
20 $\Omega$  /  $\pm$ (2% + 0.1 $\Omega$ )  
200 $\Omega$ /2000 $\Omega$  /  $\pm$ (2% +3dpts)
- **Current Consumption:**  
Earth V: 22mA  
20 $\Omega$ /200 $\Omega$ /2000 $\Omega$ : 42mA
- **Overload Protection:**  
Earth Voltage: 300Vrms/1 min  
Earth Resistance: 200Vrms/  
10 sec.

## TES-1700 Earth Resistance Tester



### Features

- ◆ Auto power off function
- ◆ 2mA measuring current permits earth resistance tests with tripping earth leakage current breakers in the circuit under test

- **Measuring Range:**  
0~399.9V (50Hz, 60Hz)  
 $\pm$ (1%rdg+4dpts)
- **Resistance:**  
0~39.99 $\Omega$ /0~399.9 $\Omega$ /0~3999 $\Omega$   
 $\pm$ (2%rdg+3dpts)
- **Overload Protection:**  
Earth Voltage: 400Vrms/1 minute  
Earth Resistance: 250Vrms/1 seconds.
- **Current Consumption:**

Range	ON
40 $\Omega$ /400 $\Omega$ /4000 $\Omega$	42mA
Earth V	22mA

# EMF Tester

## TES-1390/1391/1392 EMF Tester (Single axis)



### Features

- ◆ Measures EMF (Electro Magnetic Field) Strength
- ◆ Data Hold/Pick Hold function to capture the highest EMF strength automatically
- ◆ RS-232 Interface/Software for TES-1391/TES-1392
- ◆ Stand-alone Datalogging function for TES-1392 (15,750 points)

- **Display:** 3-1/2 digits, Max. indication 1999
- **Range:** 200/2000 milli Gauss; 20/200 micro Tesla
- **Resolution:** 0.1/1 milli Gauss; 0.01/0.1 micro Tesla
- **Accuracy:** ±(3%+3d) at 50Hz /60Hz
- **Number of Axis:** Single axis
- **Band Width:** 30 Hz~300 Hz
- **Datalogging Capacity (TES-1392):** 16,000 Points
- **Sampling Time:** Approx. 0.4 second

## TES-1393/1394 EMF Tester (Three axis)



### Features

- ◆ Triple LCD display to show X.Y.Z. axis each EMF Reading and plus average reading X+Y+Z/3
- ◆ MAX/MIN/AVG Reading
- ◆ Stand-alone Datalogging function
- ◆ RS-232 Interface/Software for TES-1394

- **Display:** 3-1/2 digits, Max. indication 1999
- **Range:** 20/200/2000 milli Gauss 2//20/200 micro Tesla
- **Resolution:** 0.01/0.1/1 milli Gauss 0.001/0.01/0.1 micro Tesla
- **Accuracy:** ±(3%+3d) at 50Hz/60Hz ±(5%+3d) at 40 Hz~/200Hz
- **Number of Axis:** Three axis
- **Band Width:** 30 Hz~2000 Hz
- **Data logging Capacity:** 999 Points
- **Sampling Time:** Approx. 0.5 second

## TES-92 Electro Smog Meter



### Features

- ◆ 50MHz to 3.5GHz Frequency range
- ◆ For isotropic measurements of electromagnetic fields
- ◆ Non-directional (isotropic) measurement with threechannel measurement probe
- ◆ High dynamic range due to three-channel digital results processing
- ◆ Configurable alarm threshold and memory function
- ◆ Easy to use

### Applications

- ◆ High frequency (RF) electromagnetic wave field strength measurement

- ◆ Mobil phone base station antenna radiation power density measurement
- ◆ Wireless communication applications (CW, TDMA, GSM, DECT)
- ◆ RF power measurement for transmitters
- ◆ Wireless LAN (Wi-Fi) detection, installation
- ◆ Spy camera, wireless bug finder
- ◆ Cellular / Cordless phone radiation safety level
- ◆ Microwave oven leakage detection
- ◆ Personal living environment EMF safety

TES ELECTRICAL ELECTRONIC CORP.

### TES-593 Electro Smog Meter (3 axis)



#### Features

- ◆ Frequency range 10MHz to 8.0GHz
- ◆ 3 axis isotropic measurements of EMF
- ◆ Non-directional (isotropic) measurement with three-channel measurement probe
- ◆ High dynamic range
- ◆ Configurable alarm threshold and memory function
- ◆ Easy & safe to use

#### Applications

- ◆ High Frequency (RF) electromagnetic wave field strength measurement

- ◆ Mobile phone base station antenna radiation power density measurement
- ◆ Wireless communication applications (CW, TDMA, GSM, DECT)
- ◆ RF power measurement for transmitters
- ◆ Wireless LAN (Wi-Fi) detection, installation
- ◆ Spy camera, wireless bug finder
- ◆ Cellular/Cordless phone radiation safety level
- ◆ Microwave oven leakage detection
- ◆ Personal living environment EMFsafety

## Flexible Clamp Meter

### AFLEX 3030 Flexible AC Current Probe



#### Features

- ◆ Three Current Ranges: 30A, 300A and 3000A
- ◆ Two Output Sensitivity (300mV and 1V), Versatile for Measuring Instruments
- ◆ Flexible Shape for Cables and Bus Bar
- ◆ Max. 170mm Diameter
- ◆ Suitable for Any Electrical System
- ◆ Wide Bandwidth, Low Phase Shift
- ◆ Low Battery Indication

### AFLEX 3001/3002 Flexible AC Current Clamp



#### Features

- ◆ Up to 3000A, True RMS
- ◆ Direct Reading, no DMM required
- ◆ True RMS measurement of A at with 1% of scale basic accuracy
- ◆ True RMS measurement of V at with 0.5% basic accuracy (model 3002 only)
- ◆ Fast peak function (39 $\mu$ s for 50Hz, 33 $\mu$ s for 60Hz)
- ◆ Max, Min and data hold functions.
- ◆ Auto Power off function in 15 minutes

- **AC Current**  
Range: 0-300.A / 300.0-999.9A / 1000-3000A  
Resolution: 0.1A / 0.1A / 1A  
Accuracy of Readings:  $\pm$  1% of range
- **AC Voltage (AFLEX 3002 only)**  
Range: 4.0V-600.0V  
Resolution: 0.1V  
Accuracy of Readings:  $\pm$  0.5%  $\pm$  5dgt
- **Frequency (RMS value > 10V) or ACA (RMS value > 30A)**  
Range: 45-65  
Resolution: 0.1  
Accuracy of Readings:  $\pm$  0.2Hz

# Harmonic Clamp Meter

## Prova 19/21/23 Leakage and Harmonics Tester



### Features

- ◆ True RMS value (V and A)
- ◆ Leakage Current Measurement at 10  $\mu$  A Resolution
- ◆ Harmonic Analysis (V and A) to the 99th Order
- ◆ Better Understanding of High Frequency Harmonic Analysis (up to 5/6 KHz)
- ◆ Analysis of Total Harmonic Distortion (THD-F)
- ◆ Analysis of Crest Factor (C.F.)
- ◆ Fast Peak Function (33  $\mu$  s and 39  $\mu$  s)

### Prova 21 (30A) and Prova 23 (100A)

- ◆ W, KW, H.P.
- ◆ VA, KVA, VAR, KVAR
- ◆ PF, Phase Angle ( $\Phi$ )
- ◆ Energy (mWH, WH, KWH)
- ◆ Analysis of Standby Power Consumption
- ◆ Balanced 3  $\Phi$  Power Quality and Sequence

- **AC Watt (Prova 21/23)**  
Range: 0.001W~9,999KW
- **AC Current (50 or 60 Hz, True RMS)**  
Range: 0.30~30.00A (19,21)  
0.30~99.99A (23)
- **AC Voltage (50 or 60 Hz, True RMS)**  
Range: 0.1V~600V
- **Harmonics of AC Voltage in % and Magnitude (1~99th order)**  
Range: 50V~600V
- **Harmonics of ACA in % Percentage and Magnitude (1~ 99th order)**  
Range: 10.00mA~30.00A(19, 21)  
10.00mA~99.99A(23)
- **Power Factor and Phase Angle (21 & 23)**  
Range (PF): 0.000~1.000  
Range ( $\Phi$ ): -180° ~180° (0° ~360°)
- **Total Harmonic Distortion (THD-F, 1~99th order)**  
Range: 0.0~999.9 %
- **Crest Factor (C.F., Accuracy of Readings)**  
Range: 1.00~99.99



## Prova 6603/6605 Power and Harmonics Tester



### Features

- ◆ Active (W, KW, HP), reactive (VAR, KVAR) and apparent (VA, KVA) power
- ◆ Power factor (PF), phase angle ( $\Phi$ ), and energy (WH, KWH)
- ◆ Non-interrupted AC current harmonic analysis
- ◆ 1 to 99th order of harmonics at 1.0% basic accuracy
- ◆ Total harmonic distortion (%THD-F) and crest factor (CF)
- ◆ True RMS measurement of V and A at 0.5% basic accuracy
- ◆ Fast peak function (39  $\mu$  s for 50Hz, 33  $\mu$  s for 60Hz)
- ◆ Resistance and Continuity with Beeper
- ◆ Measurement of balanced 3  $\Phi$  power
- ◆ Measurement of balanced 3  $\Phi$  sequence
- ◆ Programmable CT ratio from 1~250
- ◆ Max, Min and data hold functions.
- ◆ Active power in H.P.

- ◆ Auto power off function in 30 minutes
- **Prova 6603:** 0~750A,  
**Prova 6605:** 0~1,500A AC Watt  
Range: 10.0W~9999KW  
Accuracy:  $\pm 1\% \pm 2KW$
- **AC Current**  
Range: 4.0~750.0A (6603)  
4.0 ~ 1500.0A (6605)  
Accuracy:  $\pm 0.5\% \pm 5dgt$
- **AC Voltage**  
Range: 4.0V~600.0V  
Accuracy:  $\pm 0.5\% \pm 5dgt$
- **Harmonics of AC Voltage in Percentage**  
Range: 1st~99th Accuracy:  $\pm 2\%$
- **Harmonics of AC Current in Percentage**  
Range: 1st~99th Accuracy:  $\pm 2\%$
- **Power Factor (PF)**  
Range: 0.000~1.000 Accuracy:  $\pm 0.04$
- **Phase Angle ( $\Phi$ )**  
Range: -180° ~180° / 0° ~360°  
Accuracy:  $\pm 1^\circ$
- **Total Harmonic Distortion**  
Range: 0.0~999.9% Accuracy:  $\pm 2\%$

# Humidity Temp. Meter

## TES-1360A Humidity/Temperature Meter Features



### Features

- ◆ Ideal for: Laboratory, Quality Control, Air Conditioning & Process Engineering
- ◆ Instant performance of Humidity measurement by Precision thin-film capacitance sensor.
- ◆ High Resolution of 0.1% R.H., 0.1°C & 0.1°F
- ◆ Data Hold function to hold the LCD reading.
- ◆ Data memory and read function (99 sets)
- **Range:**  
Humidity: 10%~95% R.H.  
Temperature: -20°C~+60°C / -4°F~+140°F  
Resolution: 0.1% R.H. 0.1°C, 0.1°F
- **Accuracy (after calibration)**  
Humidity: ± 3% R.H.  
Temperature: ± 0.8°C, ± 1.5°F
- **Auxiliary outputs:**  
Humidity: 10mV DC/1% R.H.  
Temperature: 10mV DC/1°C, 10mV DC/1°F

## TES-1361C Datalogging Humidity/Temperature Meter



### Features

- ◆ Logging 7000 dual Reading (RH% & Temp) with Data/Time Stamp
- ◆ Switchable Main display & Secondary display
- ◆ Dual display with time clock
- ◆ Accurate & Easy Operation
- ◆ RS-232 interface (software included)
- **Range:**  
Humidity: 10%...95%R.H.  
Temperature: -20°C~+60°C/-4°F ~+140°F
- **Accuracy:**  
Humidity: ± 3%R.H. (at 25°C, 30~95%R.H.)  
Temperature: ± 0.8°C, ± 1.5°F
- **Record:** (Data logging)  
7000 Point Data logger (Dual Data)

## TES-1362 Printing Humidity/Temperature Meter



### Features

- ◆ Triple LCD Display for RH% Humidity, T1 for air, T2 for Type K
- ◆ Dew Point Reading
- ◆ Max/Min/Data Hold
- ◆ Real Time Stamp
- ◆ Periodically Print out from Pre-Set time interval
- **Range:**  
T1: Temp.: -20°C~60°C (-4°F~140°F) / (± 0.8°C, ± 1.5°F)  
Humidity: 10%RH~95%RH (± 3%RH)  
T2: Type K: -200°C~1333°C (-58°F~2431°F) / (0.1%rdg + 0.8°C)
- **Resolution:** 0.1°C/0.1°F/0.1%RH
- **Sampling Rate:** 1 time/sec.



### TES-1364/1365 Datalogging Humidity/Temperature Meter



#### Features

- ◆ Detachable sensing probe
- ◆ Data Hold & Relative function
- ◆ Dual LCD display with Bargraph indication
- ◆ Dew Point Reading & Wet Bulb Reading
- ◆ MAX/MIN with Time Stamp
- ◆ Data Memory and Read function (99 readings from LCD display)
- ◆ Datalogging capacity 15,000 dual reading (%RH & Temp-TES-1365)
- ◆ RS-232 Interface & window software (TES-1365)
- ◆ Automatic Timer Recording for Datalogger(TES-1365)

- **Range:**  
Temperature: -20°C~60°C(-4°F~140°F)  
Humidity: 10%RH~95%RH
- **Resolution:** 0.1°C/0.1°F/0.1% RH
- **Accuracy:**  
Temperature : ± 0.5°C, ± 0.9°F  
Humidity:  
± 3%RH(at 25°C30~95%RH)  
± 5%RH(at 25°C10~30%RH)
- **Datalogging:** (TES-1365)  
Continues Recorder: 15,000 data sets.

### TES-1366 Humidity / Temperature Meter



#### Features

- ◆ Dual LCD display
- ◆ Dew Point Reading
- ◆ Wet Bulb Reading
- ◆ MAX/MIN with Time Stamp
- ◆ Data Hold function
- ◆ °C & °F Switchable
- ◆ Data Memory and Read function (99 readings from LCD display)
- ◆ Auto Power Off

- **Range:**  
Temperature: -20°C~60°C(-4°F~140°F)  
Humidity: 1%RH~99%RH
- **Resolution:** 0.1°C/0.1°F/0.1%RH
- **Accuracy:**  
Temperature : ± 0.8°C, ± 1.5°F  
Humidity:  
± 3%RH(at 25°C,30~95%RH)  
± 5%RH(at 25°C,10~30%RH)
- **Data Memory capacity:**  
99 data sets (Direct reading from LCD display)

## Insulation Tester

### TES-1600 Insulation Tester



#### Features

- ◆ 2000M Ω /1000V, 200M Ω /500V, 200M Ω /250V
- ◆ Power lock for 3 minutes (Auto power off)
- ◆ Auto-Zero adjustment
- ◆ Data-Hold-Function/Continuity Beeper
- ◆ 1mA Test Current

- AC Voltage: 600V
- MEG OHMS: (± 3%rdg ± 5Ct)  
200M Ω /250V  
200M Ω /500V  
2000M Ω /1000V
- OHMS: 200 Ω



IEC 1010  
CAT III 300V  
CAT II 600V

**TES-1601 Auto Ranging Insulation Tester**



**Features**

- ◆ 4,000 M Ω /V Reading/ 10,000M Ω analog indication
- ◆ "Test Hold" function
- ◆ Backlight illumination
- ◆ 1mA Test Current
- ◆ 200mA short Circuit continuity current

- **AC Voltage:** 600V ACV
- **Continuity:** 400 Ohm (Ish> 200mA)
- **MEG OHM:** (± 3%rdg ± 5Ct)  
4000M Ω /250V w/autorange  
4000M Ω /500V w/autorange  
4000M Ω /1000V w/autorange  
Autorange: 4000M/400M/40M/4M

**TES-1604 Datalogging Insulation Tester (RS-232)**



**Features**

- ◆ Auto Range for Mega ohm range
- ◆ 200mA short circuit continuity current
- ◆ Via RS-232 interface to talk with PC
- ◆ 7000 Record data logging capacity

- **AC Voltage:** 600V ACV (1.5% rdg +3 dgts)
- **Continuity:** 40 Ohm (1sh > 200mA)(1% rdg +30dgts)
- **Mega OHM:** (± 3% rdg ± 5Ct)  
4000M Ω /250V w/auto-range  
4000M Ω /500V w/auto-range  
4000M Ω /1,000V w/auto-range  
Auto-range: 4,000M/400M/40M/4M

**TES-3660 Autoranging Insulation Tester**



**Features**

- ◆ Large LCD with analog bar graph and digital display
- ◆ 250V, 500V, 1000V output voltage for insulation M Ω testing
- ◆ 10G Ω insulation testing with utomatically switch to voltage easurement
- ◆ Lo Ω function for testing connections
- ◆ Last reading HOLD display
- ◆ Auto discharge of capacitive voltage charges
- ◆ AC/DC voltage measurement up to 999V

- ◆ Manual data memory and read function (9 sets)
- **Mega OHM:** (± 3% rdg ± 5Ct < 1G Ω ; ± 5% rdg ± 5Ct > 1G Ω )  
10G Ω /250V, 10G Ω /500V, 10G Ω /1000V  
w/auto range (4M/40M/400M/ 4000M/10G Ω )
- **Lo Ω :** 40.00 Ω (± 2% rdg ± 2dgts)
- **AC Voltage (50~400Hz):** 999V (± 2% rdg+2 dgts)
- **DC Voltage:** 999V(± 1% rdg+2dgts)
- **Resistance:** 9999 Ohm (± 1% rdg+3dgts)

**Leakage Current Tester**



**CM-03 Leakage Current Tester**

**Features**

- ◆ 10uA Ultra High Resolution
- ◆ 30mm Large Conductor Diameter
- ◆ ACA 5 Range (40mA, 400mA, 4A, 40A, 60A)

- **AC Current:** (± 1.0% rdg ± 2dgts)  
40m/400m/4A/40A/60A
- **AC Voltage:** 400V
- **Resistance:** 40~400 Ω

# LAN Cable Tester

## TES-45A LAN Cable Tester



### Features

- ◆ Check Open, Short, Reversed, Crossed & Split wires of wiring faults
- ◆ 8 different cables-remote identifiers available (#1, #2, #3, #4, #5, #6, #7, #8)
- ◆ Double digits LED display and plus 4 pairs LED to show wiring fault status/pairing test

- **Connector:** RJ45, BNC
- **Cable pairs tested:** 1/2, 3/6, 4/5, 7/8
- **Faults status:** Open, Short, Reversed, Crossed, Split and Low Battery
- **Test Cable length:** Maximum 150M (492 ft)
- **Accessories:** One Patch Cable (RJ45 to RJ45, 30cm long) & One Remote Identifier #1
- Optional for A #2, #3, #4 for B #5, #6, #7, #8

## TES-46 LAN Cable Meter



### Features

- ◆ Detects Wiring Problem: Open, Short, Reversed, Crossed & Split wires
- ◆ Locates wiring/connection errors (distance to the open or short)
- ◆ Measures cable length(2~1000 ft/ 1~350M)
- ◆ Can identify up to 8 different cables at one end by provided remote identifiers

- **Display:** 2 lines characters LCD display
- **Connector:** RJ45, BNC
- **Category:** CAT3, CAT4, CAT5, User-Calibration
- **Resolution:** 0.5 M/0.5ft < 100 M/100 ft  
1 M/1ft > 100 M/100 ft
- **Accuracy:**  $\pm(5\%+1M)/ \pm(5\%+3ft)$

# Light Meter

## TES-1330A/1332A/1334A Light Meter



### Features

- ◆ Cosine Angular corrected
- ◆ Analog output jack for recording (1332A/1334A)
- ◆ Data Hold function, Peak Hold function for 1334A

- **Range:** ( $\pm 3\%$  rdg  $\pm 0.5\%$  f.s.)  
20/200/2,000/20,000 Lux for TES-1330A  
200/2,000/20,000/200,000 Lux for TES-1332A  
20/200/2,000/20,000Lux/Foot-candle for TES-1334A  
20,000 lux-reading x10; 200,000 lux-reading x100
- **Over-range Display:** Highest digit of (1) is displayed

### TES-1335 Light Meter



#### Features

- ◆ Cosine Angular corrected
- ◆ Relative function
- ◆ Auto-Power off function
- ◆ Accurate and instant response
- ◆ Peak Hold function
- ◆ Data Hold, MAX/MIN function

- **Range:**  
40, 400, 4,000, 40,000, 400,000 Lux  
40, 400, 4,000, 40,000 fc
- **Accuracy:**  
± 3% rdg ± 0.5% f.s.  
± 4% rdg ± 10 dgt as >10,000 lux/fc
- **Resolution:** 0.01LuxCIE V λ  
function f'1 ≅ 6%
- **Over-range Display:**LCD will show "OL" symbol

### TES-1336A Datalogging Light Meter (RS-232)

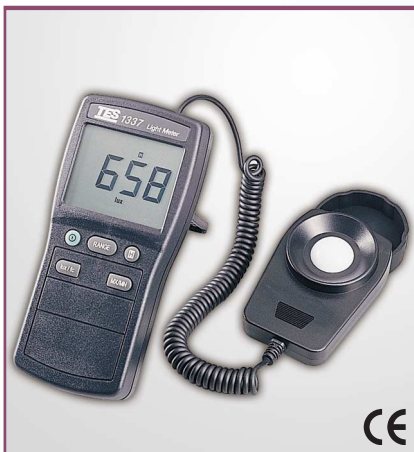


#### Features

- ◆ Spectrum of photo sensor meets C.I.E. photopic curve V(λ)
- ◆ 16000 Records Data logging capacity
- ◆ RS-232 interface (software included)
- ◆ Measurement of Luminous intensity (PC Software)

- **Range:** (± 3% rdg ± 0.5%f.s.)20/200/2,000/20,000 Lux  
20/200/2,000/20,000 Fc,  
(20,000 Lux/Fc range reading x 10)
- **Display:** 3 1/2 digit LCD
- **Measuring Rate:** 2.5 times/sec.

### TES-1337 Light Meter



#### Features

- ◆ Spectral Sensitivity close to CIE photopic Curve
- ◆ Accurate and instant response
- ◆ Data Hold function
- ◆ MAX/MIN function
- ◆ Relative function

- **Range:** (± 3% rdg ± 5 dgt)  
20, 200, 2,000, 20,000 Lux  
20, 200, 2,000, 20,000 fc
- **Accuracy:**  
± 3% rdg ± 0.5% f.s.  
± 4% rdg ± 10 dgt as > 10,000 lux/fc
- **Resolution:** 0.01Lux CIE V λ  
function f'1 ≅ 6%
- **Over-range Display:**LCD will show "OL" symbol

### TES-1339 / 1339R Light Meter Pro. (RS-232)



#### Features

- ◆ Dual Display 4-digit LCD reading
- ◆ Spectral Sensitivity close to CIE photopic Curve
- ◆ Measuring Levels Ranging 0.01 to 999900 Lux, 0.001 to 92927 fc, Autoranging 5 steps
- ◆ Accurate and Instant Response
- ◆ Integral illuminance measurement
- ◆ Luminous Intensity measurement
- ◆ Reference value setting for relative or percentage deviation measurement
- ◆ Ripple Measurement for STRAY & LIGHT function
- ◆ Time-Hold measurement
- ◆ Point-average function
- ◆ Comparator function
- ◆ Auto power off function
- ◆ Data Hold function
- ◆ CNS 5119 Class II
- ◆ Data memory and read function (99 readings)
- ◆ Data Logging function (40,000 readings) (TES-1339R)
- ◆ RS-232 Interface & Software (TES-1339R)
- **Range ( $\pm 3\%$  rdg  $\pm 5$  dgt):** 99.99, 999.9, 9999, 99990, 999900 Lux / 9.292, 92.92, 929.2, 9292, 92927 fc. Auto ranging (5 step) (1fc = 10.76 Lux)
- **Resolution:** 0.01 Lux, 0.001 fc
- **Over range Display:** OL is displayed
- **CIE photopic f' 1:**  $\leq 6\%$
- **Temperature Characteristics:**  $\pm 0.1\%/^{\circ}\text{C}$
- **Measuring Rate:** 5 time/sec (approx.)
- **Data Memory Capacity:** 99 sets (Direct reading from LCD display)
- **Data Logger Capacity:** 40,000 sets (TES-1339R)

## Loop/PSC Tester



### TES-1800 Loop/PSC Tester

#### Features

- ◆ Auto lock out if test resistor overheats
- ◆ Measure low loop with 0.01 resolution
- ◆ High loop range permit measurement of ground spikes.
- ◆ 1800A 230V
- ◆ 1800B 110V
- **Range:** 20/200/2000  $\Omega$
- **Accuracy:**  $\pm (2\%+2\text{digit})$  at 1 $\Omega$  on 20 $\Omega$  range
- **Lowest Resolution:** 0.01 $\Omega$
- **Voltage Display:**  $\pm 2\%+1\text{digit}$
- **AC Test Current:** 25A nominal at 20 Range
- **AC Test Period:** 20ms
- **PSC Range:** 200A/2000A/20KA
- **Operation Voltage:** 230V  $\pm 10\%$ , 50Hz  $\pm 1\%$
- **Fuse Protection:** HRC ceramic fuse

CE  
IEC 61010-1  
CAT III 300V

## Multimeters

### Prova 803 Precision Multimeter (Mobile Bench-top) DMM



#### Features

- ◆ 60,000 Counts Dual Channels
- ◆ 0.04% DC Basic Accuracy, 0.2% AC Basic Accuracy
- ◆ 10KHz (max.) bandwidth
- ◆ Fast ACV, ACA Response
- ◆ Built-in Calendar Clock
- ◆ File Structure Data Logging max.245 files with max. 15800 Records.
- ◆ Programmable Auto-power-off Timing (0 to 15 minutes)
- ◆ Programmable AD Average Samples per Reading (2 to 200 samples per Reading)
- ◆ Study of Relationship of Voltage and Current with One DMM
- ◆ Dual Display of Frequency and Duty Cycle
- ◆ Record Data of Both Channels Using a PC through the RS-232C interface
- **DCV/ACV:** 60.000mV ~ 1000.0V
- **DCA/ACA:** 600.00  $\mu$  A ~ 10.000A
- **Resistance:** 999.99  $\Omega$  ~ 40.000m  $\Omega$
- **Capacitance:** 60.00nF ~ 999.9  $\mu$  F
- **Frequency:** 1.000Hz ~ 2MHz
- Duty-Cycle and Diode-Test

CE  
IEC 61010-1  
CAT III 1000V  
CAT IV 600V

### Prova 901/903/905 Precision Multimeter (Mobile Bench-top) DMM



#### Features

- ◆ 60,000 Counts Dual Channels
- ◆ 0.03% DC Basic Accuracy, 0.1% AC Basic Accuracy
- ◆ 200KHz (max.) bandwidth and True RMS
- ◆ Fast ACV, ACA Response
- ◆ Built-in Calendar Clock
- ◆ File Structure Data Logging max. 245 files with max. 15800 Records (for Prova 905 only)
- ◆ Programmable Auto-power-off Timing (0 to 15 minutes)
- ◆ Programmable AD Average Samples per Reading (2 to 200samples per Reading)
- ◆ Study of Relationship of Voltage and Current with One DMM
- ◆ Dual Display of Frequency and Duty Cycle
- ◆ Record Data of Both Channels Using a PC through the RS-232C interface
- **DCV/ACV:** 60.000mV ~ 1000.0V
- **DCA/ACA:** 600.00  $\mu$ A ~ 10.000A
- **Resistance:** 999.99 $\Omega$  ~ 40.000m $\Omega$
- **Capacitance:** 60.00nF ~ 999.9 $\mu$ F
- **Frequency:** 1.000Hz ~ 2MHz
- Duty-Cycle and Diode-Test

### TES-2620 (3 3/4 Digits) True RMS Multimeter



#### Features

- ◆ 3 3/4 Digital LCD with Bar-graph
- ◆ Water-Proof ABS housing
- ◆ Auto-power off
- ◆ Auto ranging
- ◆ ADP range to accommodate Current, Temp., Humidity adaptor
- **Current:** (AC/DC)4m/40m/400m/20A
- **Voltage:** (AC/DC) ( $\pm 0.5\%$  rdg  $\pm 1$  dgt) 400m/4/40/400/750V (AC)/1000V (DC)
- **Resistance:** 400/4K/40K/400K/4M/40M $\Omega$
- **Frequency:** 100/1K/10K/100K/500K Hz

### TES-2700 Auto Ranging Multimeter



#### Features

- ◆ Autoranging and Auto-power-off
- ◆ 3200 count LCD analog bar-graph
- ◆ Data-hold mode available at ohms
- ◆ Overload protection up to 600 Vrms
- **Current:** 320u/3.2m/32m/320m/20A
- **Voltage:** (AC/DC) ( $\pm 0.5\%$  rdg  $\pm 2$  dgt) 320m/3.2/32/600V (DC) 3.2/32/320/600V (AC)
- **Resistance:** 320/3.2K/32K/320K/3.2M/30M  $\Omega$

### TES-2712 LCR Multimeter



#### Features

- ◆ 3 1/2 LCD
- ◆ Data-hold and Peak-hold function available
- ◆ Inductance, Capacitance & ohm measurement
- **Current:**  
200  $\mu$  /2m/20m/200m/20A
- **Voltage:** (AC/DC)  
( $\pm 0.5\%$  rdg  $\pm 1$ dgt)  
200m/2/20/200/600V (DC)/600V (AC)
- **Capacitance:**  
2000P/200n/2  $\mu$  F/20  $\mu$  F
- **Inductance:** 20m/200m/2/20H
- **Resistance:** 2K/20K/200K/2M/20M $\Omega$

### TES-2732A Data Logger Multimeter (RS-232)



#### Features

- ◆ DMM talks with PC via RS-232 interface
- ◆ Data logger function (4,808 readings)
- ◆ Direct input of V, A, Ohm, Hz, Cx & °C/°F without any further signal modification
- **Current:** (AC/DC)  
200u/2m/20m/200m/20A (AC/DC)
- **Voltage:** (AC/DC)  
( $\pm 0.5\%$  rdg  $\pm 1$  dgt)  
200m/2/20/200/600V (DC)/600V (AC)
- **Frequency:**  
( $\pm 0.5\%$  rdg  $\pm 2$  dgts)  
10Hz~20M Hz (Auto range)
- **Resistance:**  
200/2K/20K/200K/2M/20M $\Omega$
- **Capacitance:**  
2000P/200n/2  $\mu$  F/20  $\mu$  F

## pH Meter

### TES-1380 pH/ORP/Temp. Meter (RS-232)



#### Features

- ◆ Fast and easy pH measurement
- ◆ Dual LCD display shows pH/°C & °F or mV/°C&°F simultaneously
- ◆ Single record 99 point, continuous record 99 point MAX 4500 data
- ◆ Auto-Data-Hold function
- ◆ RS-232 Interface & Software
- ◆ TES-1380K for complete kits (with BS4, BS7, PH-200 and PT-100, 1pc/each)
- **Range:**  
pH: 0~14 pH mV: 0~1999mV  
Temp.: 0~100°C (32~200°F)
- **Resolution:**  
pH: 0.001pH mV: 0.1mV  
Temp. (°C): 0.1°C  
Temp. (°F): 0.1°F
- **Accuracy:**  
pH:  $\pm 0.002$ pH mV:  $\pm 0.2$ mV  
Temp. (°C): 0.5°C, Temp. (°F): 0.9°F
- **Optional:**  
pH electrode, Temperature probe & Buffer solution

# Power Supply

## Prova 8000 Programmable Power Supply



### Features

- ◆ Switching Technology, Analog Quality
- ◆ 1+2 Output 200w
- ◆ One Programmable Output 0-40V/5A, 0-60V/3.3A
- ◆ Two Fixed Outputs 5V/2A, 3.3V/3A
- ◆ 1mV, 1mA High resolution
- ◆ 3mVrms, 3mArms low noise
- ◆ High Stability, Low Drift
- ◆ Over-Voltage, Over-Current Protection
- ◆ OCP with Programmable Timer
- ◆ Built-in Buzzer Alarm
- ◆ 200 Sets Memory
- ◆ Easy RECALL & STORE function
- ◆ AUTO-STEP function with programmable interval
- ◆ Stand by/Operate Button
- ◆ Bi-direction RS-232C interface

## Prova 8500 Electric Energy-Saving Tester



### Features

- ◆ AC Power Supply + AC PowerMeter
- ◆ Standby Power Measurement of Note Book, Desktop PC, LCD TV, ~
- ◆ Two Measurement Terminals:
  - a. Programmable nominal output: 85V~250V, 45Hz~65Hz.
  - b. External power input: max. 2000W
- ◆ High Resolution (10mW, 0.1mA), High Stability and Low Drift
- ◆ Power Quality Measurement (W, PF, V, A, harmonics)
- ◆ PC Programmable through RS-232C Interface (Optional RS-232C to USB Bridge)
- ◆ Programmable Over Current Protection (OCP)
- ◆ Memory of 99 Preset Voltage and Frequency
- ◆ LCD display for monitoring output V, A, W
- ◆ Cost Calculation based on a Day, a Month or a Year.
- ◆ 230V/115V Selectable by Switch

#### Specifications of Front Panel (AC Sine Wave Output)

Resolution	Range	Accuracy
85V - 250V	0.1V	± 1%
45Hz - 65Hz	0.01Hz	± 0.1Hz
0.001W - 100W	0.001W	± 1% ± 0.1W
0.5A - 1.5A	0.001A	± 1% ± 0.05A
PF (0 - 1)	0.001PF	± 0.04

#### Specifications of Rear Panel (Max. 2000W, AC Measurement)

Range	Resolution	Accuracy
0.001W - 2000W	0.001W/0.01W / 0.1W/ 1W	± 1% ± 0.1W
85V - 250V	0.1V	± 1%
0.01A - 10A	0.001A/0.01A	± 1% ± 0.05A
PF (0-1)	0.001PF	± 0.04
45Hz - 65Hz	0.01Hz	± 0.1Hz
THD	0.1%	± 0.1%
Hn	0.1%	± 0.1%

# Power Analyzer

## TES-3600 3 phase Power Analyzer



### Features

- ◆ 10 Display Easy-to-View LCD screen
- ◆ Connectors for 4 Current Clamp probes
- ◆ 1P2W, 1P3W, 3P3W2M, 3P4W Power Measurement
- ◆ True RMS Sensing
- ◆ Power KW, KVAR, KVA, PF,  $\theta$ , Hz & Energy KWh, KVARh, KVAh Measurement
- ◆ Manual Data Memory and Read (99 sets)
- ◆ Datalogging (504KB memory, 20,000 sets)
- ◆ Programmable Trigger-Points and Start/Stop Time
- ◆ RS-232 Optical Interface with three phase voltage/current waveform display and Harmonic analysis
- ◆ TES-3600A for 220V
- ◆ TES-3600B for 110V
- ◆ **Range:**
  - V: 999.9V (± 0.3% rdg ± 10dgts)
  - A: 999.9A (± 0.5% rdg ± 15dgts)
  - KW: 999.9KW (± 1% rdg ± 20dgts)
  - KVA: 999.9KVA (± 1% rdg ± 20dgts)
  - KVAR: 999.9KVAR (± 2.5% rdg ± 20dgts)
  - Power Factor: -1.0 ~ +1 (± 1% rdg ± 40dgts)
  - Phase Angle: 0~ ± 15° (± 6.0°)
  - ± 15° ~ ± 75° (± 3.0°)
  - ± 75° ~ ± 90° (± 6.0°)
  - Hz: 0.01~60Hz (± 0.1%rdg ± 2dgt)
  - Three Phase Sequence Detection: 3P > 50V
  - Power Energy Measurement (Wh, Vah, VARh): 119.3M
  - Wh: ± 1% rdg ± 20 dgts
  - VAh: ± 1% rdg ± 20 dgts
  - VARh: ± 1% rdg ± 20 dgts
  - Harmonic Measurement: 1~31(± 3% THD)



### AFLEX 3003/3005 Flexible VA Harmonics/Power Quality Tester



#### Features

##### Power Analysis (3005)

- ◆ W, KW, H.P.
- ◆ VA, KVA, VAR, KVAR
- ◆ PF, Phase Angle ( $\Phi$ )
- ◆ Energy (WH, KWH)
- ◆ Dual displays (W+PF, VA+KVAR)
- ◆ Balanced 3  $\Phi$  Power Quality
- ◆ Balanced 3  $\Phi$  Sequence

##### Harmonics Analysis (3003, 3005)

- ◆ True RMS (V and A)
- ◆ 3000A
- ◆ Non-interrupted Harmonic Analysis (V and A) to the 50th Order in % and Magnitude
- ◆ Harmonic Analysis
- ◆ Fast Peak Function (33 $\mu$ s and 39 $\mu$ s)
- ◆ Programmable VT (1 to 250) Ratios
- ◆ Auto-Power-Off: 15 minutes
- ◆ Analysis of %THD-F and C.F.

### AFLEX 6300 Graphic Power Quality Analyzer



#### Features

- ◆ Analysis for Single Phase and Balanced 3 Phase Systems
- ◆ True RMS Value (V and I)
- ◆ Active Power (KW), Apparent (KVA) and Reactive Power (KVAR)
- ◆ Power Factor (PF), Phase Angle ( $\Phi$ )
- ◆ Energy (WH, KWH, KVARH, PFH)
- ◆ Display of Overlapped Voltage and Current Waveform
- ◆ Max. Demand (MD in W, KW, MW) with Programmable Period
- ◆ Harmonics Analysis (V & I) to the 50th order
- ◆ Display of 25 Harmonics in One Screen with Waveform

- ◆ Display of Waveform with Peak Values (512 Samples/Period), Datalogging of 32, 64, 128 or 258 Points/Cycles
- ◆ Analysis of Total Harmonic Distortion (%THD-F)
- ◆ Graphic Phasor Diagram
- ◆ Capture 128 Transient Events (Time + Cycles + Faults) with Programmable Threshold (%), Can also be Reviewed in LCD
- ◆ 50000 Records with Programmable Interval (1 to 6000seconds)
- ◆ Output of Waveform, Power Parameters and 50 Harmonics at Command
- ◆ Large Dot Matrix LCD Display with Backlight

### Prova 6200 Graphic Power Quality Analyzer



#### Features

- ◆ Analysis for Single Phase and Balanced 3 Phase System
- ◆ True RMS Value (V and I)
- ◆ Active Power (W, KW, MW, GW)
- ◆ Apparent Power (VA, KVA, MVA)
- ◆ Reactive Power (VAR, KVAR, MVAR)
- ◆ Power Factor (PF), Phase Angle ( $\Phi$ )
- ◆ Energy (WH, KWH, KVARH, PFH)
- ◆ Programmable PT (1 to 3000) Ratios
- ◆ Display of Overlapped Voltage and Current Waveform
- ◆ Maximum Demand (MD in W, KW, MW) with Programmable Period
- ◆ Harmonic Analysis (V and I) to the 50th Order
- ◆ Display of 25 Harmonics in One Screen
- ◆ Datalogging of 32, 64, 128 or 256 points/cycles

- ◆ Analysis of Total Harmonic Distortion (%THD-F)
- ◆ Graphic Phasor Diagram
- ◆ Capture 128 Transient Events (Time + Cycles + Faults) with Programmable Threshold (%), also can be reviewed in LCD.
- ◆ 50,000 Records with Programmable Interval (1 to 6,000 seconds)
- ◆ Real-time Output of Waveform, Power Parameters and Harmonics at Command
- ◆ Large Dot Matrix LCD Display with Backlight
- ◆ Optical Isolated RS-232C Interface
- ◆ Smart Datalogging to Save Battery Power for Long-term Monitoring
- ◆ Built-in Calendar Clock for Data Logging

## Prova 6830+6801/ 6830+6802/ 6830+6803 Power and Harmonics Analyzer



### Features

- ◆ Analysis for 3P4W, 3P3W, 1P2W, 1P3W
- ◆ True RMS Value (V123 and I123)
- ◆ Active Power (W, KW, MW, GW)
- ◆ Apparent and Reactive Power (KVA, KVAR)
- ◆ Power Factor (PF), Phase Angle ( $\Phi$ )
- ◆ Energy (WH, KWH, KVARH, PFH)
- ◆ Current Measurement:  
6830+6801: 0.04A ~ 100A;  
6830+6802: 0.4A ~ 1000A;  
6830+6803: 4A ~ 3000A.
- ◆ Display of 35 Parameters in One Screen (3P4W)
- ◆ Voltage and Current Waveform
- ◆ Average Demand (AD in W, KW, MW)
- ◆ Maximum Demand (MD in W, KW, MW) with Programmable Period
- ◆ Harmonic Analysis to the 99th Order
- ◆ Display of Waveform with Peak Values (1024 Samples / Period)
- ◆ Analysis of Total Harmonic Distortion (%THD-F)
- ◆ Graphic Phasor Diagram with 3 Phase System Parameters
- ◆ Capture 28 Transient Events (Time + Cycles) with Programmable Threshold (%)
- ◆ DIP, SWELL, and OUTAGE are included in transient events
- ◆ Calculate Unbalanced Current through Neutral Line (In)
- ◆ 512K Memory with Programmable Interval (Sampling time from 2 to 3000 seconds, 17,000 records for 3P4W system)
- ◆ Large Dot Matrix LCD Display with Backlight
- ◆ Optical isolated RS232C to USB Interface
- ◆ Built-in Timer and Calendar for Data Logging
- ◆ Option: 300XP Portable Thermal Printer

## WM-01/02 Power Analyzer



### Features

- ◆ Solution for better PF
- ◆ 4 LCD Displays with W, PF, V, A
- ◆ Easy Plug-in and Test
- ◆ RS-232 Computer Interface
- ◆ Software for:
  1. Phase Angle
  2. Apparent Power
  3. Reactive Power
  4. Kilo- Watt Hour
  5. Estimated kilo-Watt per day/ month/year
  6. Energy Cost/Kwh
  7. Serial Number/record print out of your appliance measured
- **Watt:** (Auto Range, AC+DC) 200/ 2,000 ( $\pm 0.9\%rdg \pm 5dgt$ s)
- **Voltage:** (True RMS, Auto Range , AC+DC) 200/750 ( $\pm 0.5\%rdg \pm 3dgt$ )
- **Current:** 20A
- **Frequency:** 2K/20K/200K/2M/20MHz

## Power Clamp Meter

## Prova 6600 3 Phase/1 Phase Power Clamp



### Features

- ◆ 3  $\phi$  4W, 3  $\phi$  3W, 3  $\phi$  Balanced, 1  $\phi$  2W, 1  $\phi$  3W
- ◆ AC+DC 2000KW (3  $\phi$ ), 1200KW (1  $\phi$ )
- ◆ Dual Display W +PF, KVA +KVAR, A+Hz, V+Hz, V+A
- ◆ Phase Angle, Phase Sequence Indication
- ◆ AC+ DC 600V, 2000A, Power Factor
- ◆ AC/DC Auto Detection
- **AC+DC True Power:** 0~99.99/100~999.9/ 1,000~1, 200KW
- **AC + DC Voltage:** 0~200V/200~500V/500~600V
- **AC+DC Current:** ( $\pm 1.5\%rdg \pm 5dgt$ s) 0~200/200~500/500~2,000A

### Prova 6601 Phase PF Power Clamp



#### Features

- ◆ PF (3  $\phi$  4W, 3  $\phi$  3W, 1  $\phi$  2W)
- ◆ AC+DC 2000KW (3  $\phi$ ), AC+DC 1200KW (1  $\phi$ )
- ◆ Dual Display W+PF, KVA +KVAR, A+V, V+Hz
- ◆ AC+DC 600V, 2000A, Power Factor
- ◆ AC/DC Auto Detection

- **AC + DC True Power:**  
( $\pm 2\%$ rdg  $\pm 0.05$ KW)  
0~99.99/100~999.9/  
1000~1,200KW
- **AC + DC Voltage:**  
0~200V/200~500V/500~600V
- **AC+DC Current:**  
( $\pm 1.5\%$ rdg  $\pm 5$ dgts)  
0~200/200~500/500~2,000A
- **AC + DC KVAR:**  
0~99.99/100~999.9/  
1,000~1,200KW

### TES-3063 Datalogging Power AC/DC Clamp Meter



#### Features

- ◆ True Power/Apparent/Power Factor
- ◆ RS-232 interface to talk with PC
- ◆ Dual display KW+PF, KVA+PF, V+A, A+Hz, V+Hz
- ◆ Datalogging Capacity (4000 Reading)
- ◆ Peak/Max/MIN function
- True Power & Apparent Power Measurement:  
V<130V, A<150A/V>130V, A<150A/V  
<130V, A>150A/V >130V, A>150A

- **DCA/ACA/DCV/ACV:**  
DCA & ACA-1000A  
DCV & ACV-600V
- **Peak Indication:**  
20~80A, 80~1000A  
20~80V, 80~600V
- **Resistance:** 10K $\Omega$
- **Frequency (Hz):** 1KHz/5KHz

### TES-3079K Power/HVAC Trms Clamp Meter (1000A)



#### Features

#### HVAC Application :

- ◆ Check current draw in motors and compressors.
- ◆ Use MAX/MIN/Recording in the temperature mode to assess efficiency.
- ◆ Test run/start capacitors.
- ◆ Confirm low voltage control signals.
- ◆ Measure current draw of flame safeguard device
- ◆ Confirm power sources
- ◆ Analyze temperature and voltage or current data with the aid of the time stamp.
- ◆ Insulation test up to 100M  $\Omega$ .

#### Electrical Application :

- ◆ Check for energized circuits and balanced loads.
- ◆ 1  $\phi$  / 3  $\phi$  (3P3W/3P4W) Power analyzer.
- ◆ Evaluate electrical contacts.
- ◆ Capture motors in-rush current readings.
- ◆ Determine peak power demand periods.
- ◆ Verify line voltage stability.
- ◆ Monitor motors and other loads for excess heat.
- ◆ Check motors run/start capacitor values.

## Printer



### Prova 300XP / 310XP Portable Thermal Printer

#### Features

- ◆ Portable Field Printing for Certificate
- ◆ Text and Graphics
- ◆ Two Selectable Fonts (5 x 7 and 8 x 16)
- ◆ Programmable Text Header and Footer
- ◆ Battery and AC power Adaptor
- ◆ RS-232C Interface (300XP: Optional RS-232C to USB bridge)

- ◆ Fixed Interval Continuous Printing (5, 30, 60, 300 seconds)
- ◆ Ready for \*Agilent 34401A Multimeter
- ◆ User Programmable Printing
- ◆ With Calendar Clock (310XP)

# RCD Tester

## TES-1900 Digital RCD Tester



### Features

- ◆ 3 LED's for checking wiring status
- ◆ 0 and 180 degree phase angle switch permits quick tests and consistent readings
- ◆ Digital read out of tripping time
- ◆ Visual indication of reversed phase and neutral wiring at socket
- ◆ Resilient case made from modern plastics to take everyday knock and brings
- ◆ 1900A 230V
- ◆ 1900B 110V
- **Rated Tripping Current:** 10/20/30/100/300/500mA
- **Fault Condition Setting:** X1/2, X1, X5
- **Fault Trip Time:** 2000ms, 40ms (X5)
- **Low Set Resolution:** 1ms (X1/2, X1), 0.1ms (X5)
- **Trip Time Accuracy:** ± (1% rdg + 2 digits)
- **Operation Voltage:** 230V ± 10%, 50/60Hz

# Sound Level Meters

## TES-1350A Sound Level Meter



### Features

- ◆ 0.1dB Resolution
- ◆ Maximum hold function
- ◆ AUX OUTPUT JACKS
- **Range:**  
A LO (Low) Weighting: 35~100dB  
HI (High) Weighting: 65~130dB  
C LO (Low) Weighting: 35~100dB  
C HI (High) Weighting: 65~130dB
- **Frequency:** 31.5Hz~8KHz
- **Dynamic:** 65dB
- **Display:** 4 digital
- **Accuracy:** ± 2dB

## TES-1351B Sound Level Meter



### Features

- ◆ 0.1dB Resolution
- ◆ Maximum hold function
- ◆ AUX OUTPUT JACKS
- **Range:**  
A LO (Low) Weighting: 35~90dB  
A HI (High) Weighting: 65~130dB  
C LO (Low) Weighting: 35~90dB  
C HI (High) Weighting: 65~130dB
- **Frequency:** 20Hz~8KHz
- **Dynamic:** 65dB
- **Display:** 4 digital
- **Accuracy:** ± 1.4dB(ref 94dB@1KHz)

## TES-52A Sound Level Meter



### Features

- ◆ 0.1dB Resolution
- ◆ 60dB Dynamic range
- ◆ 30 to 130dB Measurement ranges
- ◆ A&C Frequency weighting
- ◆ Fast/Slow Time weighting
- ◆ Maximum/Minimum with Elapsed time
- ◆ Manual data memory and read
- **Measurement frequency range:** 31.5 Hz to 8KHz
- **Measurement level range:** 6 ranges in 10-dB step: 25~80dB, 30~90dB, 40~100dB, 50~110dB, 60~120dB, 70~130dB
- **Manual data memory capacity:** 99 sets



### TES-1352H Programmable Sound Level Meter



#### Features

- ◆ RS-232 interface
- ◆ 16,000 Records Data logging function
- ◆ Real Time Clock with Calendar
- ◆ Auto Ranging
- **Frequency:** 31.5 Hz~ 8KHz
- **Level A/C weighting:** 30dB~130dB
- **Six Range:** 6 ranges in 10dB step, 30-80dB/ 40-90dB/50-100dB/60-110dB/ 70-120dB/80-130dB
- **Auto Range:** 30-130dB
- **Dynamic Range:** 50dB
- **Display:** 4 digit LCD
- **Accuracy:** ± 1.5dB

### TES-1353H Integrating Sound Level Meter



#### Features

- ◆ SPL, Leq, SEL, MaxL, MinL
- ◆ Wide linearity range of 100dB
- ◆ 32000 Records Data logging function
- ◆ RS-232 Interface
- **Function:** SPL, Leq, SEL, MaxL, MinL
- **Frequency:** 31.5 Hz~8KHz
- **Level A/C weighting:** 30dB~130dB
- **Display:** 4 digit LCD, 0.1dB resolution, updated every 0.5s
- **Accuracy:** ± 1.5dB

### TES-1354/1355 Noise Dosi-Meter



#### Features

- ◆ Measures% Noise Dose/ Exposure Time/Sound Level
- ◆ Real Time Clock with Calendar
- ◆ RS-232 interface (1355)
- **Range:** 70~140dBA (± 1.5dB)
- **Digital Display:** 0.01~99.99% DOSE
- **Criterion Level:** 80, 84, 85, 90dB
- **Threshold Level:** 70~90dB (1dB step)
- **Exchange Rate:** 3dB, 4dB, 5dB or 6dB
- **High Level Detector:** 115dBA
- **Peak Flag:** 140dB

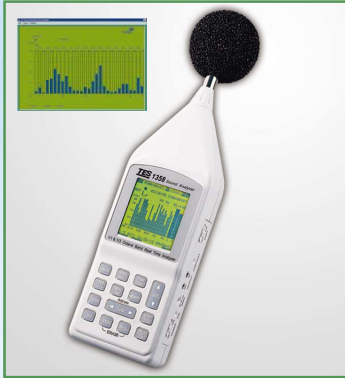
### TES-1357 Precision Sound Level Meter



#### Features

- ◆ 0.1dB Resolution
- ◆ Fast/Slow dynamic characteristic
- ◆ Range from 30~130dB
- ◆ A&C Frequency Weighting
- **Accuracy:** ± 1.5dB (ref 94dB)
- **Frequency Weighting:** A, C
- **Measuring Level:** 30~130dB
- **Range:** 30~80dB, 50~100dB, 60~110dB, 80~130dB
- **Frequency:** 31.5 Hz~8kHz

### TES-1358 Sound Analyzer



#### Features

- ◆ Real-time 1/1-Octave and 1/3-Octave analysis.
- ◆ Large display with backlighting.
- ◆ Memory max. 12280 records of Lp data.
- ◆ Wide Linearity range of 100 dB
- ◆ Real time clock with calendar.
- ◆ RS-232 interface.
- ◆ 1358A 220V AC adapter.
- ◆ 1358B 110V AC adapter.

- **Range:** 30 dB~130 dB
- **Measurement Range:** Lp, Leq, LE, Lmax, Lmin
- **Frequency:** 25Hz~10KHz
- **Frequency Weighting:** A, C, Flat
- **Time Weighting:** Fast, Slow 1/1. 1/3 Analyzer level range 20~90dB/30~100dB/40~110dB/50~120dB/60~130dB
- **Memory Capacity:** 12280 data (Sound Level Meter mode) 1024 data (1/1 or 1/3 oct. analysis)

### TES-1359 Sound Level Meter



#### Features

- ◆ Complies with IEC 61672-1 standard
- ◆ Dynamic range: 60dB
- ◆ Five ranges (30 to 130 dB)
- ◆ A&C Frequency weighting
- ◆ Fast / Slow time weighting
- ◆ Maximum hold
- **Accuracy:**  $\pm 1.4\text{dB}@1\text{KHz}$
- **Measurement Level:** 30dB to 130dB
- **5 ranges in 10 dB step:** 30~ 90dB, 40 ~ 100dB, 50 ~ 110dB, 60 ~ 120dB, 70 ~ 130dB

- **Linearity range:** 60dB
- **Frequency:** 31.5Hz to 8KHz
- **Frequency weight:** A and C
- **Time weight:** Fast and Slow
- **Display Warning function:** Overrange Indicator: Displayed at the upper limit  
Underrange indicator: Displayed at the lower limit
- **Analog AC/DC output:** 1Vrms (at full scale), 10mVDC/dB

## Tachometer

### RM-1000 Digital Optical Tachometer



#### Features

- ◆ Range: 10-100,000RPM
- ◆ Direct Light-Beam Sensing
- ◆ Recall/Data Hold

- **Accuracy:**  $\pm 0.01\% \pm 1\text{dpts}$
- **Resolution:** 0.1RPM
- **Measuring Distance:** 50mm~300mm
- **Max distance:** 300mm
- MAX/ MIN/STAND-BY
- Data Hold
- **Time Base:** 12.0MHz Quartz Crystal

### RM-1500/1501 Digital Tachometer



#### Features

- ◆ 5 Digits LCD Display
- ◆ Auto Range, from 10.00~99,999 RPM
- ◆ Measuring Distance 50~300 mm
- ◆ Combination for non-contact & contact measurements
- ◆ Event Counter (0~99,999)
- ◆ RS-232 (RM-1501)
- ◆ Resolution: 0.001/0.1/1rpm

#### Speed (Non-contact)

- ◆ **RPM:** 10.00~99,999
- ◆ **rps (Hz):** 0.2~2,000

#### Speed (Contact)

- ◆ 10.000~29,999RPM

#### Event Counter

- ◆ 0-99999
- ◆ **Optional Accessory:** RM-1502, Contact Adaptor

# Thermometers

## TES-1300/1303 Thermometer



### Features

- ◆ Max Hold Function
- ◆ Data Hold Function
- ◆ Aux output JACKS
- ◆ T1-T2 differential measurement

- **Range:** -50°C~1300°C/-50°F~1,999°F
- **Sensor:** K Type thermocouple
- **Input:** Single (1300), Dual (1303)
- **Display:** 3-1/2 digit LCD
- **Resolution:** 0.1°

## TES-1304 Printing Thermometer



### Features

- ◆ Type K,J,E,T. Thermocouple Input
- ◆ Dual Channels with multifunctions (T1, T2 & T1-T2)
- ◆ Built-in thermo printer with programmable Time interval setting

- **Range:**  
Type K: -200~1333°C(-328~2431°F)  
Type J: -200~760°C(-328~1400°F)  
Type E: -200~703°C(-328~1297°F)  
Type T: -200~400°C(-328~752°F)  
Display: 4 1/2 LCD Digital Display

## TES-1306 K/J Thermometer



### Features

- ◆ K/J Type thermocouple input
- ◆ Auto ranging
- ◆ Data Hold
- ◆ Maximum/Minimum reading
- ◆ Multi-channels scanner (T1 → T2 → T1-T2)

- **Range:**  
Type K: -200°C~1370°C/-328°F~2498°F  
Type J: -200°C~760°C/ -328°F~1400°F  
Sensor: K/J Type thermocouple  
Display: 3-1/2 digit LCD

## TES-1307 Datalogging K/J Thermometer



### Features

- ◆ K/J Type thermocouple input
- ◆ Auto ranging/Data Hold
- ◆ 15,000 Record Data logging Capacity
- ◆ Maximum/Minimum/Average reading
- ◆ RS-232 Interface (Software Include)
- ◆ Dual display LCD with Clock

- **Range:**  
Type K: -190°C~1333°C/ -310°F~2431°F  
Type J: -190°C~760°C/ -310°F~1400°F
- **Resolution:**  
0.1°C for -190°C~1000°C  
1°C for 1000°C~1333°C
- **Condition:**  
0°C~40°C below 80% R.H.  
-10°C~60°C below 70% R.H.

**TES-1311A Thermometer**



**Features**

- ◆ Switchable Resolution 0.1 ° /1.0 °
- ◆ With °C & °F switching
- ◆ Data Hold Function
- ◆ Room Temperature compensated
- ◆ Data Memory 150 readings (Memory/Read)

- **Range:**  
 (± 0.1%rdg ± 1°C/2°F)  
 -50°C~1,300°C/-58°F~1,999°F
- **Sensor:** K Type thermocouple
- **Input:** Single
- **Sampling Rate:** 2.5 times/sec.
- **Resolution:**  
 -50°C~199.9°C~0.1°C  
 -59°F~199.9°F~ 0.1°F  
 Others~1°C/1°F

**TES-1312A Triple Display Thermometer**



**Features**

- ◆ Type "K" thermocouple input
- ◆ Autorange resolution 0.1 ° /1 °
- ◆ With °C, °F & K switching
- ◆ Offset (Relative) /Data Hold Function
- ◆ MAX/MIN/AVG with elapse time function
- ◆ Room Temperature compensated
- ◆ T1 & T2 dual points display
- ◆ T1-T2 differential measurement
- ◆ Backlight Large LCD display

- **Range:**  
 -200°C~1,370°C/-328°F~1,999°F
- **Resolution:**  
 -200°C~199.9°C~0.1°C  
 -328°F~199.9°F~ 0.1°F  
 Others~1°C/1°F
- **Accuracy:**  
 -200~1,000°C (-328~1832°F):  
 ±(0.3%rdg+1°C/2°F)  
 1,000~1370°C (1832~1,999°F):  
 ±(0.5%rdg+1°C/2°F)
- **Sampling Rate:** 2.5 times/sec.

**TES-1314 K, J, E, T, R, S, N Thermometer**



**Features**

- ◆ High accuracy with K, J, E, T, R, S, N type
- ◆ Dual input, T1/T2 temp. display
- ◆ Warning beeper with HI/LO setting
- ◆ MAX/MIN with TIME, MAX-MIN, AVG, HOLD
- ◆ °C/°F/K User-Selectable
- ◆ Back-Light LCD display

- **Range:**  
 K: -150.0~+1,372.0°C(-200.0°F~+2,501.0°F)  
 J: -150.0~+1,090.0°C(-200.0~+1994.0°F)  
 E: -150.0~+870.0°C(-200.0~+1598.0°F)  
 T: -150.0~+400°C(-200.0~+752.0°F)  
 R,S: 2.0~+1767.0°C(+35.0~+1999.9°F)  
 N: -150.0~+1300.0°C(-200.0~+1999.9°F)
- **Resolution:**  
 J, K, T, E and N Type: 0.1°C/°F/K  
 R and S Type: 1.0°C/°F/K ≥ 200 °
- **Sampling Rate:** One time per 1.5 sec.

**TES-1315/1316 Datalogging Thermometer K, J, E, T, R, S, N**



**Features**

- ◆ High accuracy with K, J, E, T, R, S, N type
- ◆ Dual input, T1/T2 temp. display. (1316)
- ◆ 7,500 Datalogging capacity
- ◆ Warning beeper with HI/LO setting
- ◆ MAX/MIN with TIME, MAX-MIN, AVG, HOLD
- ◆ °C/°F/K User-Selectable
- ◆ Back-Light LCD display

- **Range:**  
 K: -150.0~+1,372.0°C(-200.0°F~+2,501.0°F)  
 J: -150.0~ +1,090.0°C(-200.0~+1994.0°F)  
 E: -150.0~+870.0°C(-200.0~+1598.0°F)  
 T: -150.0~+400°C(-200.0~+752.0°F)  
 R,S: 2.0~+1767.0°C(+35.0~+1999.9°F)  
 N: -150.0~+1300.0°C(-200.0~+1999.9°F)
- **Resolution:**  
 J, K, T, E and N Type: 0.1°C/°F/K  
 R and S Type: 1.0°C/°F/K ≥ 200 °
- **Sampling Rate:** One time per 1.5 sec.





**TES-1317/1317R Platinum RTD Thermometer**



**Features**

- ◆ Pt 3916/3926/385 RTD standard
- ◆ Stand-alone logging function 97 sets
- ◆ 4,200 Datalogging capacity (1317R)
- ◆ Warning beeper with HI/LO setting
- ◆ Time setting
- ◆ MAX/MIN with TIME, MAX-MIN, AVG Hold
- ◆ °C/°F/K User-Selectable
- ◆ Back-Light LCD display
- ◆ RS-232 (TES-1317R)

- **Range:**  
(± 0.05 % rdg ± 0.5°C/0.9°F)  
-190°C~790°C (-310°F~1454°F)
- **Resolution:** 0.1°C/0.1°F/0.1K
- **Sampling Rate:** 1.5 time/sec.

**TES-1318 Platinum RTD Thermometer (Dual Channels)**



**Features**

- ◆ Pt 3916/3926/385 RTD standard
- ◆ Stand-alone logging function 40 sets
- ◆ Warning beeper with HI/LO setting
- ◆ Time setting
- ◆ MAX/MIN with TIME, MAX-MIN, AVG Hold
- ◆ °C/°F/K User-Selectable
- ◆ Back-Light LCD display

- **Range:**  
(± 0.05 %rdg ± 0.5°C/0.9°F)  
Pt385: -190~790°C (-310~1454°F)  
Pt3916: -190~615°C (-310~1139°F)  
Pt3926: -190~615°C (-310~1139°F)
- **Resolution:** 0.1°C/0.1°F/0.1K
- **Sampling Rate:** One time per 1.5 sec.

**TES-1326S/1327/1327K Infrared / K Type Thermometer**



**Features**

- ◆ °C / °F Selectable / 0.1°C / 0.2°F Resolution
- ◆ Built-in Laser Sighting / Backlight LCD display
- ◆ Auto Power off (approx. 15 sec.)
- ◆ Laser targeting.
- ◆ Maximum / Minimum function.
- ◆ Data memory and read function. (50 readings)
- ◆ Emissivity adjustable. (1327/1327K)
- ◆ Audible and visible alarm. (1327/1327K)
- ◆ Dual thermometer and Dual display. (1327K)

**Infrared Thermometer**

- **Display:** Backlight LCD display
- **Measurement Range:** -35°C ~ 500°C (-31°F ~ 932°F)
- **Resolution:** 0.1°C / 0.2°F
- **Accuracy:** 2% reading or 2°C
- **Spectral Response:** 6 ~ 14 μ m
- **Field of View:** 12:1 optics ratio with a 1" min target
- **Emissivity:** 0.17 ~ 1.00 (1326S : fixed 0.95)
- **Sighting:** Laser marker < 1mw

**K-Type Thermometer (TES-1327K)**

**Measurement Range :** -150°C ~ 1350°C (-238°F ~ 1999°F)

**Resolution :** 0.1°C / 1°C , 0.1°F / 1°F

Function	Resolution	Range	Accuracy
°C	0.1°C	-150°C ~ 0°C	±(0.2% rdg + 1.0°C)
		0°C ~ 200°C	±(0.1% rdg + 1.0°C)
	1°C	200°C ~ 1350°C	±(0.2% rdg + 2°C)
°F	0.1°F	-238°F ~ 32°F	±(0.2% rdg + 2°F)
		32°F ~ 200°F	±(0.1% rdg + 2°F)
	1°F	200°F ~ 1999°F	±(0.2% rdg + 4°F)

### TES-1319A Thermometer (Type K)



#### Features

- ◆ Switchable Resolution 0.1° / 1°
- ◆ With °C & °F switching
- ◆ Data Hold Function
- ◆ Memory/Read function
- ◆ Flip-up stand

- **Range:**  
-50°C~1300°C, -58°F~1999°F
- **Resolution:**  
-50°C~199.9°C...0.1°C  
-59°F~199.9°F... 0.1°F  
Others...1°C/1°F
- **Accuracy:**  
-50~0°C (-58~0°F) ±(0.5%+1°C/2°F)  
0~1,000°C(0~1832°F)- ±(0.3%+1°C/2°F)  
1,000~1,300°C(1,832~1,999°F)- ±(0.5%+1°C/2°F)
- **Sampling:** 2.5 times/sec.

### Watt Clamp Meter



#### Features

- ◆ AC/DC 1200KW
- ◆ DC/AC 2,100A & Analog Output
- ◆ True RMS
- ◆ Temperature (-50°C~1000°C)

- **AC+DC 250V/600V Power:**  
(± 2.5%rdg ± 5dpts)  
Range: 40KW/400KW (250V)  
400KW/1200KW (600V)
- **Current:**  
(AC/DC)(± 1.5%rdg ± 3dpts)  
Range:  
400A/0~2,000A/2,000~2,500A
- **Analog Output:** (AC/DC)  
Range: 400/2500A (DC)  
400/2100A (AC) (1mV/A)

### Prova 2009 AC/DC WATT Clamp



#### Features:

- ◆ True Power, AC 240KW, DC 240KW
- ◆ True RMS ACA 400A, ACV 600V
- ◆ DCA 400A, DCV 400V
- ◆ Large 3 3/4 digits LCD(4000 counts)
- ◆ Fast Bargraph Display (20times/sec.)
- ◆ Data and max./min. hold
- ◆ Relative Measurement

- **AC/DC Power:** 40/240 KW
- **AC/DC Current:** 400 A
- **AC/DC Voltage:** 400 V
- **Frequency:** 100~1000KHz

### Prova 400 AC/DC RMS WATT Clamp Meter



#### Features

- ◆ Trms KW, Current, Voltage
- ◆ 4,000 count, Autoranging
- ◆ AC Current 0.1A~700A
- ◆ Pocket Size
- ◆ Auto Power Off
- ◆ AC Voltage Trms (TES-3095T)

- **KW (Trms):** (AC) 40.00KW/250.0KW/(5% +30) PF>0.5
- **Current (Trms):** (AC) 400A/700A (1% +10)
- **Voltage (Trms):** (AC) 400V/600V
- **Ohms:** (Resistance) 400Ω/4,000Ω
- **Continuity beeper:** ≤ 38Ω

### TES-3095T AC Clamp Meter