



THE ART OF MEASUREMENT THE ART OF MEASUREMENT THE ART OF MEASUREMENT



FULL LINE

FULL LINE



PH METER (optional)

Model : PH-208

- * pH : 0 to 14.00 pH, ± 1999 mV.
- * mV function for ORP electrode.
- * Manual temperature compensation.
- * ATC via optional Temp. probe (TP-07).
- * Easy pH calibration procedures.
- * RS232/USB, Hold, Record, $^{\circ}\text{C}/^{\circ}\text{F}$.
- * Size : 195 x 68 x 30 mm.



DISSOLVED OXYGEN METER

Model : YK-22DO

- * 0 to 20.0 mg/L, 0 to 50.0 $^{\circ}\text{C}$, $^{\circ}\text{C}/^{\circ}\text{F}$.
- * Automatic temperature compensation.
- * RS232/USB, Hold, Record.
- * Probe head with diaphragm set and electrolyte are included.
- * 4 meters cable, heavy duty.



ORP METER

Model : YK-23RP

- * Range : -1999 mV to + 1999 mV.
- * Large LCD display, 21.5 mm digit height.
- * High input impedance.
- * Data hold, professional housing case.



CONDUCTIVITY METER, wide range

Model : CD-4306

- * Wide ranges conductivity meter
- * 4 ranges : 200 μS , 2 mS, 20 mS, 200 mS.
- * 4 rings conductivity probe, high performance.
- * Data hold.



CONDUCTIVITY/TDS METER

Model : YK-22CT

- * Conductivity : 2 mS, 20 mS, 2 ranges.
- * TDS : 2,000, 20,000 PPM, 2 ranges.
- * Temp. : 0 to 60.0 $^{\circ}\text{C}$, $^{\circ}\text{C}/^{\circ}\text{F}$.
- * ATC, RS232/USB, Hold, Record.



CONDUCTIVITY METER

Model : YK-43CD

- * 2 Ranges : 2 mS, 20 mS.
- * Large LCD display, 21.5 mm digit height.
- * Automatic temperature compensation.
- * Data hold, professional housing case.



PH METER (optional)

Model : YK-21PH

- * 0 to 14 pH x 0.01 pH.
- * Large LCD display, 21.5 mm digit height.
- * Accuracy : ± 0.1 pH (pH 4 to pH 10).
- * Data hold, professional case.
- * Economical cost.



PURE WATER TESTER

Model : YK-30WA

- * Water conditioning, home, aquariums, food processing, photography, school, laboratory, industry & quality control.
- * Check the condition of water filter.
- * Measurement : 0 to 1999 μS .
- * 21.5 mm digit height, Data hold.



SALT METER

Model : YK-31SA

- * Measurement : 0 to 10.0% salt (% weight).
- * Large LCD display, 21.5 mm digit height.
- * Automatic temperature compensation.
- * Data hold, professional housing case.
- * Aquariums, Water conditioning laboratory, industry & quality control.



THERMOMETER, Pt 100 + Type K/J/R/E/T
Model : TM-936

- * 2 in 1, Pt 100 ohm thermometer + Thermocouple type J/K/R/E/T) thermometer.
- * Type K/J/E/T : -100 to 1300 °C, 0.1 °C/ 0.1 °F.
- * Type R : 0 to 1700 °C, 1 °C/ 1 °F
- * Pt 100 ohm : -200 to 800 °C, 0.1 °C/ 0.1 °F.
- * Sensor select button on the front panel, easy to change different type probe.
- * 4 wires PT 100 ohm probe input, 0.00385 alpha coefficient, meet DIN IEC 751, high precision.
- * Built-in a REL (relative) button.
- * RS232/USB, Hold, Record (Max., Min.).
- * Temp. probe, optional, refer page 47.



THERMOMETER, Type K/J/R/E/T
Model : TM-926

- * Type K/J/E/T : -100 to 1300 °C, 0.1 °C/ 0.1 °F.
- * Type R : 0 to 1700 °C, 1 °C/ 1 °F
- * Sensor select button on the front panel, easy to change different type probe.
- * Built-in a REL (relative) button
- * RS232/USB, Hold, Record (Max., Min.).
- * Temp. probe, optional, refer page 47.



ANEMOMETER
Model : YK-80AP

- * Range : 0.4 to 25.0 m/s.
- * m/s, ft/min, km/h, knots, mile/h, Temp..
- * Temp. : 0 °C to 50 °C, °C/ °F.
- * RS232/USB, Hold, Record (Max., Min.).



ANEMOMETER, metal vane
Model : YK-80AM

- * Range : 0.4 to 35 m/s.
- * Metal vane probe, heavy duty.
- * m/s, ft/min, km/h, knots, mile/h, Temp..
- * Temp. : 0 °C to 60 °C, °C/ °F.
- * RS232/USB, Hold, Record (Max., Min.).



ANEMOMETER, mini vane
Model : YK-80AS

- * Range : 0.8 to 12 m/s.
- * 13 mm Dia. metal mini vane, telescope probe.
- * m/s, ft/min, km/h, knots, mile/h, Temp..
- * Temp. (probe) : 0 °C to 80 °C, °C/ °F.
- * RS232/USB, Hold, Record (Max., Min.).



THERMOMETER, 3 in 1
Model : TM-2000

- * 3 in 1, Infrared thermometer + Pt 100 ohm + Type K, J, R, E, T, intelligent.
- * With laser target guide for IR measurement.
- * IR range : -20 to 400 °C, Emissivity adjustment.
- * Type K, J, R, E, T : -100 to 1700 °C maximum.
- * RS232/USB, Data hold, Max., Min. Relative.



High Temp. IR THERMOMETER, + type K/J/R/E/T
Model : TM-939

- * IR Range : -20 to 650 °C (-4 to 1202 °F), °C/ °F.
- * IR emissivity is adjustable from 0.20 to 1.00.
- * IR with Laser target guide, RS232/USB.
- * Thermocouple input : type K/J/R/E/T
- * Type K : -100 to 1300 °C, 0.1 °C/0.1 °F.



High Temp. IR THERMOMETER, wide range
Model : TM-949

- * IR Range : -20 to 650 °C (-4 to 1202 °F), °C/ °F.
- * IR emissivity is adjustable from 0.20 to 1.00.
- * IR with Laser target guide, RS232/USB.



SOUND LEVEL METER, Auto Range & RS-232

Model : SL-4012

- * 30 - 130 dB, Auto range, Manual range.
- * Frequency & time weighting meet IEC 61672 class 2.
- * A & C frequency weighting.
- * Fast / Slow time weighting, Data hold.
- * Peak hold, Memory (max., min.).
- * AC output & RS232/USB computer interface.
- * Size : 268 x 68 x 29 mm.



SOUND LEVEL METER, separate probe

Model : SL-4013

- * 30 to 130 dB, Auto range, RS232/USB interface.
- * 180° rotary sensor shelf.
- * Same function as SL-4012.
- * Separate probe optimum for remote measurement and low noise environment test.



LIGHT METER

Model : YK-10LX

- * Large LCD display, 21.5 mm digit height.
- * 2,000 Lux, 20,000 Lux.
- * Sensor meets C.I.E. photopic spectrum.
- * 2 filters, professional.
- * Hold, External zero adjust.



LIGHT METER

Model : LX-1102

- * Large LCD display with bar graph display.
- * 40.00/400.0/4,000/40,000/400,000 Lux.
- * Lux, Foot-candle unit selection.
- * Sensor meets C.I.E. spectrum, 2 filters.
- * RS232/USB, Hold, Record, Zero adjust.



Acc., Vel., Displacement, data logger

VIBRATION METER

Model : VB-8203

- * Acceleration : 200 m/s².
- Velocity : 200 mm/s.
- Displacement (p-p) : 2 mm.
- * Max hold, peak value, data hold.
- * Memory (Max., Min.).
- * LCD display with bar graph.
- * RS232/USB interface, data logger.
- * Hard carrying case is included.
- * Size : 200 x 68 x 30 mm, Power : 9V battery.



HUMIDITY METER, data logger, RS232

Model : YK-90HT

- * Humidity, Temp., Dew point
- * 10 to 95 %RH, 0 to 50 °C.
- * 0.01 %RH, 0.01 degree.
- * 1000 data logger point, RS232/USB.

HUMIDITY METER, +Dew Point + Type K

Model : HD-3008



LIGHT METER, 4 light type

Model : LX-1108

- * Large LCD display with bar graph display.
- * 40.00/400.0/4,000/40,000/400,000 Lux.
- * Lux, Foot-candle unit selection.
- * Sensor meets C.I.E. spectrum, 2 filters.
- * RS232/USB, Hold, Record, Zero adjust.
- * 4 light type selection.



UV LIGHT METER

Model : YK-35UV

- * Spectrum : 290 nm -390 nm
- * Application : UVA & UVB measurement.
- * Range : 2 mW/cm², 20 mW/cm².
- * Large LCD display, 21.5 mm digit height.
- * Data hold, Max., Min..
- * RS232/USB computer interface.

LM-8000 SERIES



4 in 1
Anemometer, Humidity meter
Light Meter, Type K Thermometer
Model : LM-8000A

- * Humidity : 10 to 95 %RH, °C/°F
- * Anemometer : 0.4 to 30.0 m/s.
- * Anemometer unit : m/s, km/h, MPH, knots, ft/min, °C/°F.
- * Light : 0 to 20,000 Lux, 0 to 1,860 Ft-cd, auto range.
- * Type K Thermometer : -100 to 1300 °C, °C/°F.
- * Data hold, Record (Max., Min.)
- * Tiny bone shape with light weight and small size.

Model : LM-8010

- * Same as LM-8000 but with air flow (CMM, CFM).

Model : LM-9000

- * Same as LM-8000 but with air flow (CMM, CFM) and barometer.



ANEMOMETER

Model : LM-81AM

- * Measuring range : 0.4 to 30.0 m/s.
- * Unit : m/s, km/h, MPH, knots, ft/min.
- * Data hold, Record (Max., Min.).
- * Tiny bone shape with light weight and small size.

Model : LM-81AT

- * Same as LM-81AM but with Temp. measurement.



LIGHT METER

Model : LM-81LX

- * 2,000 Lux, 20,000 Lux, auto range.
- * 200 Ft-cd, 2,000 Ft-cd, auto range.
- * Lux/Ft-cd unit select, zero adjust.
- * Data hold, Record (Max., Min.).
- * Tiny bone shape with light weight and small size.

HUMIDITY METER

Model : LM-81HT

- * Humidity : 10 to 95 %RH.
- * Temperature : 0 to 50.0 °C, °C/°F.
- * Data hold, Record (Max., Min.).
- * Tiny bone shape with light weight and small size.



**Pen type
Cup Anemometer
Humidity, Barometer**



**+ Temperature
CUP ANEMOMETER
Model : AM-4221**

- * Out side air speed measurement.
- * 0.9 to 35.0 m/s, ft/min., km/h, mile/h, knots.
- * Temperature : 0 to 50 °C, °C/°F.
- * All in one, hand held type.
- * Cup type probe, high reliability.
- * LCD display, Record (max., min.).
- * IP-65 Water resistance, heavy duty.
- * DC 1.5V battery (UM-4, AAA) x 4.



**CUP ANEMOMETER
Model : AM-4220**

- * Out side air speed measurement.
- * 0.9 to 35.0 m/s, ft/min., km/h, mile/h, knots.
- * All in one, hand held type.
- * Cup type probe, high reliability.
- * LCD display, Record (max., min.).
- * IP-65 Water resistance, heavy duty.
- * DC 1.5V battery (UM-4, AAA) x 4.



**CUP ANEMOMETER/BAROMETER/HUMIDITY/TEMP.
Model : ABH-4224**

- * Air velocity : 0.9 to 35.0 m/s, ft/min., km/h, mile/h, knots.
- * Barometer : 10 to 1100 hPa, mmHg, inHg.
- * Humidity : 10% to 95% RH, Dew.
- * Temperature : 0 to 50 °C, °C/ °F.
- * All in one, hand held type.
- * Cup type probe, no wind direction.
- * Hold, Record (max., min.).
- * DC 1.5V battery (UM-4, AAA) x 4.

**Pen type
Vane Anemometer, Humidity
Barometer, Light Meter**

VANE ANEMOMETER/BAROMETER/HUMIDITY/TEMP.

Model : ABH-4225

- * Air velocity : 0.4 to 30.0 m/s, ft/min., km/h, mile/h, knots.
- * Barometer : 10 to 1100 hPa, mmHg, inHg.
- * Humidity : 10% to 95% RH, Dew.
- * Temperature : 0 to 50 °C, °C/°F.
- * All in one, hand held type.
- * Vane probe, high reliability.
- * Hold, Record (max., min.).
- * DC 1.5V battery (UM-4, AAA) x 4.



+ Temperature

VAN ANEMOMETER

Model : AM-4222

- * Air velocity : 0.4 to 30.0 m/s
- * Temperature : 0 to 50 °C, °C/°F.
- * Unit : m/s, km/h, knots, ft/min, mile/h.
- * Temp. : 0 to 50 °C, °C/°F.
- * All in one, compact and handheld type.
- * LCD display, Data hold.
- * DC 1.5V battery (UM-4, AAA) x 4.



LIGHT METER

Model : PLX-111

- * 0 to 20,000 Lux, 0 to 1,860 Ft-cd.
- * Unit : Lux, Ft-cd.
- * Auto range.
- * Pen type, all in one, easy carryout.
- * Hold function to freeze display value.
- * DC 1.5V battery (UM-4, AAA) x 4.

VANE ANEMOMETER/HUMIDITY/TEMPERATURE

Model : AH-4223

- * Air velocity : 0.4 to 30.0 m/s, ft/min., km/h, mile/h, knots.
- * Humidity : 10% to 95% RH, Dew.
- * Temperature : 0 to 50 °C, °C/°F.
- * All in one, hand held type.
- * Vane probe for anemometer.
- * Hold, Record (max., min.).
- * DC 1.5V battery (UM-4, AAA) x 4.



**Pen type
Humidity / Temp.
Barometer, Type K Thermometer** SERIES



HUMIDITY/BAROMETER/TEMP. METER

Model : PHB-318

- * Barometer : 10 to 1100 hPa, mmHg, inHg.
- * Humidity : 10% to 95% RH, Dew.
- * Temperature : 0 to 50 °C, °C/°F.
- * All in one, pen type, easy carry out.
- * Hold, Record (max., min.).
- * DC 1.5V battery (UM-4, AAA) x 4.



HUMIDITY/TEMP. METER

Model : PHT-316

- * Humidity : 10% to 95% RH.
- * Temperature : 0 to 50 °C.
- * Temp. units : °C, °F. internal adjustment.
- * Humidity measurement with fast response time
- * All in one, pen type, easy carry out.
- * Hold function to freeze display value.
- * Built-in reverse display button.
- * DC 1.5V battery (UM-4, AAA) x 4.



THERMOMETER, all in 1

Model : PTM-816

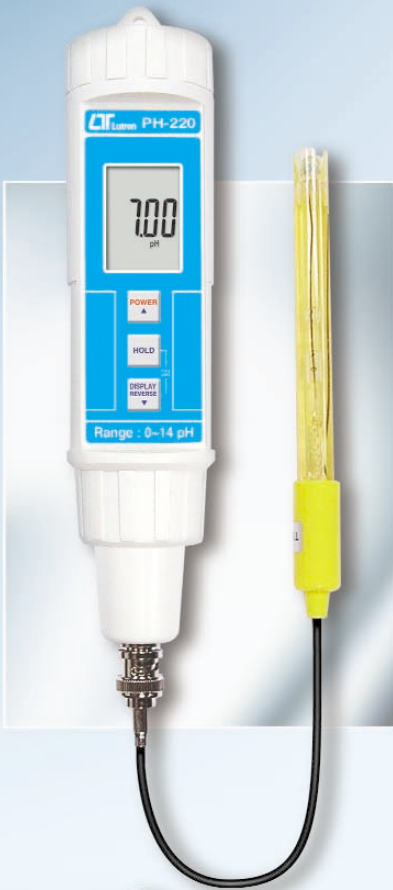
- * Cooperate with the type K Temp. probe.
- * Range : -50 to 230 °C x 0.1 °C.
- * Units : °C, °F. internal adjustment.
- * Meter with the probe, all in 1, easy operation.
- * Hold function to freeze display value.
- * Built-in reverse display button.
- * IP-67 Water resistance, heavy duty.
- * DC 1.5V battery (UM-4, AAA) x 4.



**Separate probe, type K
THERMOMETER**

Model : PTM-806

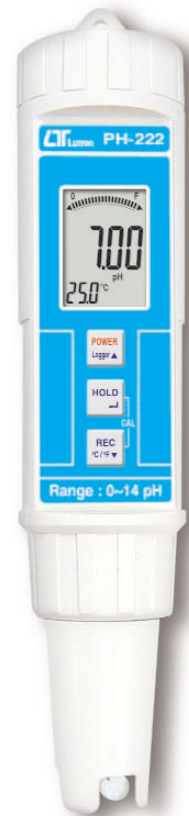
- * Cooperate with the type K Temp. probe.
- * Range : -100 to 1300 °C x 0.1 °C.
- * Units : °C, °F. internal adjustment.
- * Separate probe, easy for remoting measurement.
- * Temp. probe, TP-01 is included.
- * Optional temp. probes : TP-02A, TP-03, TP-04.
- * Hold function to freeze display value.
- * Built-in reverse display button.
- * DC 1.5V battery (UM-4, AAA) x 4.



PEN PH METER

Model : PH-220

- * Separate pH electrode, easy for general purpose and remote measurement.
- * 0 to 14.00 pH.
- * Auto calibration for pH 4, pH 7 or pH 10.
- * Temp. adjustment is not necessary.
- * IP-65 water proof.
- * Pen type, easy carry out.
- * Complete set with separate pH electrode (PE-11) and pH 4, pH 7 standard solutions.
- * Built-in reverse display button.
- * DC 1.5V battery (UM-4, AA) x 4, long life.



PEN PH METER

Model : PH-222

- * 0 to 14.00 pH.
- * ATC (auto temperature compensation).
- * Auto calibration for pH 4, pH 7 or pH 10.
- * Meter with pH electrode, all in one.
- * IP-67, water proof.
- * Easy replacement for the pH electrode.
- * Pen type, easy carry out.
- * Data logger.
- * pH 4, pH 7 standard solutions are included.
- * DC 1.5V battery (UM-4, AA) x 4, long life.

PEN PH METER, economical type

Model : PH-223

- * 0 to 14.00 pH.



SOIL PH METER

Model : PH-220S

- * Complete set with separate soil, spear tip pH electrode and pH 4 and pH 7 standard solutions.
- * Meter : 0 to 14 pH x 0.01 pH. Electrode : 1 to 13 pH.
- * Auto calibration for pH 4, pH 7 or pH 10.
- * Temp. adjustment is not necessary.
- * IP-65 water proof.
- * Built-in reverse display button.
- * DC 1.5V battery (UM-4, AA) x 4, long life.
- * Spear tip pH electrode, ideal for penetration pH measurements into soil, meats, cheese and other type of measurements requiring sample penetration.



SALT METER

Model : PSA-311

- * Measurement : 0 to 12.0 % salt (% weight value)
- * Automatic temperature compensation.
- * Meter is built-in test probe, all in 1, easy operation.
- * Hold, Record (max., min.).
- * IP-65 Water resistance, heavy duty.
- * DC 1.5V battery (UM-4, AAA) x 4.

ORP METER

Model : ORP-213

- * Range : -1,000 mV to 1,000 mV.
- * Professional ORP electrode, ORP-14 is included.
- * Separate ORP electrode, easy operation.
- * High input impedance.
- * Data hold.
- * Built-in reverse display button.
- * IP-65 Water resistance, heavy duty.
- * DC 1.5V battery (UM-4, AA) x 4, long life.





DISSOLVED OXYGEN METER, all in 1

Model : PDO-519

- * Range : 0 to 20.0 mg/L x 0.1 mg/L.
- * Temperature : 0 to 50 °C, °C/°F.
- * Automatic temperature compensation.
- * Probe with the meter, all in one.
- * Polarographic type oxygen electrode, professional.
- * Data hold, Record (max., min.).
- * IP-67 Water resistance, heavy duty.
- * External calibration buttons.
- * DC 1.5V battery (UM-4, AAA) x 4.



CONDUCTIVITY METER

Model : PCD-431

- * 2 ranges : 2,000 uS, 20 mS.
- * Temperature measurement, °C/°F.
- * Automatic temperature compensation.
- * Probe with the meter, all in one.
- * Carbon rode electrode, high reliability.
- * Data hold, Record (max., min.).
- * IP-67 Water resistance, heavy duty.
- * External calibration buttons.
- * DC 1.5V battery (UM-4, AAA) x 4.

**separate probe
DISSOLVED OXYGEN METER**

Model : PDO-520

- * Range : 0 to 20.0 mg/L x 0.1 mg/L.
- * Temperature : 0 to 50 °C, °C/°F.
- * Automatic temperature compensation.
- * Separate DO probe easy for remoting operation.
- * Polarographic type oxygen electrode, professional.
- * Data hold, Record (max., min.).
- * External calibration buttons.
- * DC 1.5V battery (UM-4, AAA) x 4.



**Separate probe
CONDUCTIVITY METER**

Model : PCD-432

- * 2 ranges : 2,000 uS, 20 mS.
- * Temperature measurement, °C/°F.
- * Automatic temperature compensation.
- * Separate probe, easy for remorting operation.
- * Carbon rode electrode, high reliability.
- * Data hold, Record (max., min.).
- * External calibration buttons.
- * DC 1.5V battery (UM-4, AAA) x 4.



Pen type
Moisture, Soil Moisture
Pure Water, Vibration
UV, O₂, CO



MOISTURE METER

Model : PMS-713

- * Wood and concrete moisture measurement.
- * Wood material : 6 to 40% moisture content.
- * Concrete material : 0 to 100% moisture content.
- * Meter is built-in test probe, all in 1, easy operation.
- * Hold function to freeze display value.
- * IP-65 Water resistance, heavy duty.
- * DC 1.5V battery (UM-4, AAA) x 4.



PEN VIBRATION METER

Model : PVB-820

- * Acceleration :
200 m/s², 20.00G.
- * Velocity :
200 mm/s, 20.00 cm/s



PEN UV METER

Model : PUV-360

- * Acc. : 2 mW/cm², 20 mW/cm².
- * Calibration is under UVA light.
- * Spectrum :
260 nm - 390nm



PURE WATER METER

Model : PWA-301

- * Water conditioning, aquarium, food processing, photography, school, laboratory, industrial and quality control.
- * Check the condition of water filter.
- * Measurement : 0 to 1999 uS.
- * Meter with the probe, all in 1, easy operation.
- * Hold, Record (max., min.).
- * IP-67 Water resistance, heavy duty.
- * DC 1.5V battery (UM-4, AAA) x 4.



PEN O₂ METER

Model : PO2-250

- * Oxygen in air.
- * 0 to 30.0 % x 0.1 %.



PEN CO METER

Model : PCO-350

- * 0 to 1000 ppm.
- * Alarm beeper.



SOIL MOISTURE METER

Model : PMS-714

- * Soil moisture content measurement.
- * Range : 0 to 50 % moisture content.
- * Heavy duty probe, probe length : 20 cm.
- * Meter is built-in test probe, all in one, easy operation.
- * Hold, Record (max., min.).
- * IP-65 Water resistance, heavy duty.
- * DC 1.5V battery (UM-4, AAA) x 4.

OXYGEN METER

Model : DO-5510HA

- * μ -P circuit, LCD with display unit.
- * Dissolved oxygen range: 0 to 20 mg/L.
- * Max., Min., Memory recall button.
- * DO, Oxygen in air, Temp., ATC, Auto cal.
- * Probe head with diaphragm set and electrolyte are included.



(optional)



PH METER

Model : PH-207HA

- * 0 to 14 pH x 0.01 pH, \pm 1999 mV.
- * μ -P circuit, LCD with display unit.
- * Max., Min., Memory recall button.
- * pH, mV, Temp., manual Temp. adj. or ATC.
- * PH electrodes (optional) : PE-03, PE-11, PE-01, PE-04HD, PE-06HD, PE-03K7, refer to page 70.
- * Size : 185 x 78 x 38 mm.



CONDUCTIVITY METER

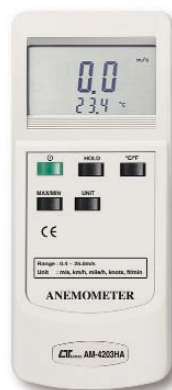
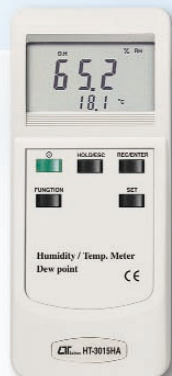
Model : CD-4303HA

- * μ -P circuit, LCD with display unit.
- * Max., Min., Memory recall button.
- * 200 μ S/2mS/20mS, ATC, Cell adj.
- * Size : 185 x 78 x 38 mm.

HUMIDITY METER, Temp., Dew point

Model : HT-3015HA

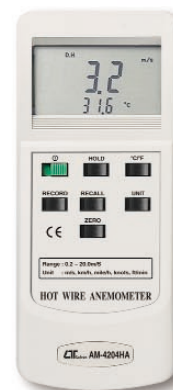
- * μ -P circuit, LCD with display unit.
- * Max., Min., Memory recall button.
- * 10%-95% RH, 0-50.0 °C, °C/°F, Dew point.
- * Size : 185 x 78 x 38 mm.



ANEMOMETER

Model : AM-4203HA

- * μ -P circuit, 0.4 to 25.0 m/s.
- * Max., Min., Memory recall button.
- * m/s, ft/min, km/h, mile/h, knots, Temp.(°C/°F).
- * Size : 185 x 78 x 38 mm.



HOT WIRE ANEMOMETER

Model : AM-4204HA

- * 0.2 - 20.0 m/s, high precision for low air velocity measurement.
- * m/s, ft/min, km/h, knots, mile/h, °C/°F.
- * Max., Min., Data hold.
- * Telescope probe.
- * Size : 185 x 78 x 38 mm.



MOISTURE METER

Model : MS-7001

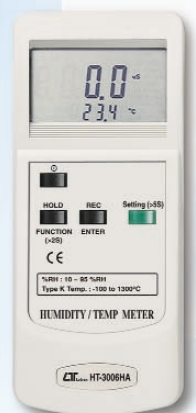
- * Range : 9% to 30% moisture content.
- * Max., Min., Data hold.
- * Economical Moisture meter.
- * Size : 185 x 78 x 38 mm.



MOISTURE METER

Model : MS-7000HA

- * Range : 9% to 30% moisture content.
- * 9 material species groups in memory.
- * Max., Min., Data hold, Self-calibration.
- * Professional Moisture meter.
- * Size : 185 x 78 x 38 mm.



HUMIDITY/TEMP. METER, + type K/J Temp.

Model : HT-3006HA

- * Humidity meter/%RH : 10 to 95 %RH.
- * Humidity meter/Temp. : 0 to 50.0 °C, °C/°F.
- * Type K Thermometer : -199.9 to 1300 °C, °C/°F.
- * Type J Thermometer : -199.9 to 1100 °C, °C/°F
- * Max., Min., data hold.
- * Type K Temp. probes (optional) : TP-01, TP-02A, TP-03, TP-04, refer page 47.

(optional)





**MANOMETER, 2000 mBar, differential input
Model : PM-9100HA**

- * Dual & differential input, 2000 mbar x 1 mbar.
- * mbar, psi, Kg/cm², inch/Hg, mm/Hg, inch/H₂O, meter/H₂O, Atmosphere.
- * Data hold, Memory (Max., Min.).
- * Applications : Industrial, laboratory, schools, heating, ventilation, hospital, medical...



**THERMOMETER CALIBRATOR
Model : TC-920**

- * Type k thermocouple calibrator.
- * Type k thermocouple thermometer.
- * -199 °C to 1230 °C, -325 °F to 2246 °F.
- * Resolution : 0.1 °C (<1000 °C).
- * °C / °F, Data hold.
- * Size : 185 x 78 x 38 mm.



**VOLTAGE/CURRENT CALIBRATOR
Model : CC-421**

- * Current source : 0 to 24 mA, 2 ranges.
- * Current measurement : 0 to 24 mA, 2 ranges.
- * Power (12 V) and current measurement of two wire loop : 0 to 24 mA, 2 ranges.
- * DC mV source : -199.9mV to +199.9mV.

**CURRENT CALIBRATOR
Model : CC-422**



**VIBRATION METER
Model : VB-8201HA**

- * Professional vibration sensor included.
- * Velocity : 200 mm/S.
- * Acceleration : 200 m/S².
- * RMS, Peak Hold, Max./Min.
- * Size : 185 x 78 x 38 mm.



**LIGHT METER
Model : LX-107HA**

- * 2,000/20,000/100,000 Lux, Data hold.
- * Lux, Ft-candle, max., min., zero, 2 filters.
- * Tungsten, Fluorescent, Mercury, Sodium, 4 light type select, microprocessor circuit.
- * Size : 185 x 78 x 38 mm.



**PRECISION 0.01 degree THERMOMETER
Model : TM-917HA**

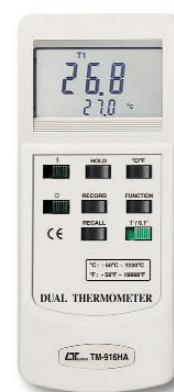
- * PT 100 ohm, thermocouple type K, J, R, E, T.
- * Max. measurement range 1370 °C (type K).
- * 0.01, 0.1 degree resolution,, Memory (Max., Min.).
- * Professional thermometer with high accuracy.
- * Size : 185 x 78 x 38 mm.

**PT 100 ohm TEMP. PROBE
Model : TP-100**

(optional)

**DUAL THERMOMETER
Model : TM-916HA**

- * μ -P circuit, LCD with display unit.
- * Max., Min., Memory recall button.
- * °C/°F, 0.1°/1°, T1, T2, T1-T2.
- * Size : 185 x 78 x 38 mm.
- * Temp. probes, optional, refer page 47.



HOT WIRE ANEMOMETER

Model : AM-4204

- * 0.2 - 20.0 m/s, high precision for low air velocity measurement, Telescope probe.
- * m/s, ft/min, km/h, knots, mile/h, °C/°F.
- * Max., Min., Data hold, RS232/USB interface.

HOT WIRE ANEMOMETER, + air flow (CMM, CFM)

Model : YK-2004AH



ANEMOMETER, air flow + air velocity

Model : AM-4206

- * CMM (m³/min.), CFM (ft³/min.)
- * m/s, ft/min, km/h, mile/h, knots, Temp.(°C/°F).
- * 0.4 to 25.0 m/s., μ -P circuit.
- * Max., Min., Memory recall button.
- * Size : 180 x 72 x 32 mm. RS232/USB.

ANEMOMETER, metal vane, air flow

Model : AM-4206M

- * Range : 0.4 to 35.0 m/s.
- * CMM (m³/min.), CFM (ft³/min.).
- * Other function are same as AM-4206, use metal vane probe, heavy duty.

ANEMOMETER, mini vane

Model : AM-4213

- * 13 mm Dia. heavy mini vane, telescope probe.
- * High Temp. air velocity measurement.
- * m/s, ft/min, km/h, knots, mile/h, Temp.(°C/°F).
- * 0.8 to 12.0 m/s., μ -P circuit. RS232/USB.

Model : AM-4216

- * Same function as AM-4213, but with the CMM (m³/min.), CFM (ft³/min.) measurements.

MOISTURE METER

Model : MS-7000

- * Range : 9% to 30% moisture content.
- * 9 material species groups in memory.
- * Max., Min., Data hold, Self-calibration.
- * Size : 180 x 72 x 32 mm. RS232/USB.

CONCRETE / WOOD MOISTURE METER

Model : MS-7002



ANEMOMETER

Model : AM-4203

- * μ -P circuit, 0.4 to 25.0 m/s.
- * Max., Min., Memory recall button.
- * m/s, ft/min, km/h, mile/h, knots, Temp.(°C/°F).
- * Size : 180 x 72 x 32 mm. RS232/USB.



HUMIDITY/ANEMOMETER METER, + type K/J

Model : AM-4205A

- * Anemometer : 0.4 to 25.0 m/s. m/s, ft/min., km/h, mile/h, knots, Temp.
- * Humidity meter / %RH : 10 to 95 %RH. Humidity/Temp. : 0 °C to 50 °C, °C/°F.
- * Type K thermometer : -200 to 1300 °C, °C/°F.
- * Type J thermometer : -200 to 1100 °C, °C/°F.
- * Max., Min., data hold, RS232/USB interface.



LIGHT METER

Model : LX-105

- * μ -P circuit, 2,000/20,000/50,000 Lux.
- * Max., Min., Memory recall button.
- * Lux, Ft-candle, % values, wide range.
- * 4 light type select by push button.
- * Size : 180 x 72 x 32 mm. RS232/USB.



TORQUE METER, 15 Kg-cm

Model : TQ-8800

- * Professional torque meter with separate probe.
- * 15 Kg-cm torque sensor is included.
- * 3 units : 15 Kg-cm/13 LB-inch/147.1 N-cm.
- * Peak, Data hold, Zero, Max./ Min., Fast/Slow.
- * Size : 180 x 72 x 32 mm. RS232/USB.

UVA LIGHT METER Model : UVA-365

UVC LIGHT METER Model : UVC-254

- * Ultra-Violet radiometer.
- * 199.9 μ W/cm², 1.999, 19.99 mW/cm².
- * RS232, Data Hold.
- * Max., Min., Memory recall button.
- * Size : 180 x 72 x 32 mm. RS232/USB.





CONDUCTIVITY METER

Model : CD-4303

- * μ -P circuit, LCD with display unit.
- * Max., Min., Memory recall button.
- * 200 μ S/2mS/20mS, ATC, Cell adj.
- * Size : 180 x 72 x 32 mm. RS232/USB.

PRESSURE SENSOR

Model : PS100-xxBAR

- * Pressure sensor connected with PS-9302
- * PS100-2BAR : 2 bar sensor.
- * PS100-5BAR : 5 bar sensor.
- * PS100-10BAR : 10 bar sensor.
- * PS100-20BAR : 20 bar sensor.
- * PS100-50BAR : 50 bar sensor.
- * PS100-100BAR : 100 bar sensor.
- * PS100-400BAR : 400 bar sensor.



PRESSURE METER, full line

Model : PS-9302

- * Meter connects with 2, 5, 10, 20, 50, 100, 400 bar sensor, no calibration procedures are necessary when change a new sensor .
- * Bar, PSI, Kg/cm², inch/Hg, mm/Hg, inch/H₂O, meter/H₂O, Atmosphere.
- * Data hold, Memory (Max., Min.), RS232/USB.
- * Size : 180 x 72 x 32 mm.

PH METER

Model : PH-207

- * 0 to 14 pH x 0.01 pH, \pm 1,999 mV.
- * μ -P circuit, LCD with display unit.
- * Max., Min., Memory recall button.
- * pH, mV, Temp., manual Temp. adj. or ATC.
- * Size : 180 x 72 x 32 mm. RS232/USB computer interface.
- * PH electrodes (optional) : PE-03, PE-11, PE-04HD, PE-06HD, PE-01, PE-05T, PE-03K7, refer to page 70.



MANOMETER, 2000 mbar, differential input

Model : PM-9100

- * Dual & differential input, 2000 mbar x 1 mbar.
- * mbar, PSI, Kg/cm², inch/Hg, mm/Hg, inch/H₂O, meter/H₂O, Atmosphere.
- * Data hold, Memory (Max., Min.), RS232/USB.
- * Application : Industrial, laboratory, schools, heating, ventilation, hospital, medical...
- * Size : 180 x 72 x 32 mm.

MANOMETER, 7000 mbar, differential input

Model : PM-9107

MANOMETER, 200 mbar, differential input

Model : PM-9102



Temp., Dew point, RS232

HUMIDITY METER

Model : HT-3015

- * Measurement : Humidity, Temp., Dew point
- * Resolution : 0.01 %RH, 0.01 degree.
- * 1000 data logger no., RS232/USB interface.
- * Optional data transmission software, SW-DL2005.
- * Fast response time.
- * Separate probe.
- * LCD display, 006P DC 9 V battery.
- * Size : 180 x 72 x 32 mm.



HUMIDITY/TEMP. METER, + type K/J Temp.

Model : HT-3006A

- * Humidity meter/%RH : 10 to 95 %RH.
- * Humidity meter/Temp. : 0 to 50.0 °C, °C/°F.
- * Type K thermometer : -199.9 to 1300 °C, °C/°F.
- * Type J thermometer : -199.9 to 1100 °C, °C/°F.
- * Max., Min., data hold, RS232/USB interface.
- * Type K Temp. probe (optional) : TP-01, TP-02A, TP-03, TP-04, refer page 47.



OXYGEN METER

Model : DO-5510

- * μ -P circuit, LCD with display unit.
- * Dissolved oxygen range : 0 to 20 mg/L.
- * Max., Min., Memory recall button.
- * DO, Oxygen in air, Temp., ATC, Auto Cal., % salt.
- * Diaphragms & electrolyte included.
- * Probe head with diaphragm set and electrolyte are included.
- * Size : 180 x 72 x 32 mm. RS232/USB interface.



VIBRATION METER
Model : VB-8200

- * Separate professional vibration sensor.
- * Velocity : 200 mm/s.
- * Acceleration : 200 m/s².
- * RMS, Peak, RS232/USB, Hold, Record.

VIBRATION METER
Model : VB-8210

- * Built-in Metric & Imperial display unit.



VIBRATION METER

Model : VB-8202

- * Separate professional vibration probe.
- * Velocity : 200 mm/s.
- * Acceleration : 200 m/s².
- * RMS, Peak, RS232/USB, Hold, Record.

VIBRATION METER

Model : VB-8212

- * Built-in Metric & Imperial display units.



Acc., Vel., Displacement, data logger

VIBRATION METER

Model : VB-8213

- * Acceleration : 200 m/s².
- Velocity : 200 mm/s.
- Displacement : 2.0 mm.
- * Max hold, peak value, data hold.
- * Memory (Max., Min.)
- * LCD display with bar graph.
- * 500 point data logger.
- * Zero adjustment, RS232/USB interface.
- * Optional data transmission software, SW-DL2005.
- * Accelerator and hard carrying case are included.



VIBRATION METER, Acc., Velocity, Disp.

Model : VB-8220

- * Separate professional vibration sensor.
- * Acceleration : 200 m/s².
- * Velocity : 200 mm/s.
- * Displacement (p-p) : 2 mm.
- * RMS, Peak value.
- * RS232/USB computer interface.
- * Hard carrying case included.
- * DC 9V battery (006P).



VACUUM METER
Model : VC-9200

- * 1125 torr x 1 torr, 1500 mbar x 1 mbar.
- * Units : torr, mm Hg, micron, KPa, Pa, inch Hg, psi.
- * RS232/USB, Hold, Record (Max., Min.).
- * Heavy duty vacuum sensor is used for air, oil gas...
- * Applications : Automobile, Industrial, laboratory, heating, ventilation, medical hospital...



PRECISION 0.01 degree THERMOMETER

Model : TM-907A

- * Cooperate with PT 100 ohm probe, high accuracy.
- * Max. measurement range -199.99 °C to 850 °C.
- * 0.01/0.1 °C resolution, Memory, °C/°F select.
- * 180 x 72 x 32 mm. RS232/USB.

PT 100 ohm TEMP. PROBE

Model : TP-100

(optional)

PRECISION 0.01 degree THERMOMETER

Model : TM-917, RS-232/USB

- * PT 100 ohm + thermocouple type K, J, R, E, T.
- * Max. measurement range 1370 °C (type K).
- * 0.01°, 0.1° resolution, Memory (Max., Min.).
- * Professional thermometer with high accuracy.

PT 100 ohm TEMP. PROBE

Model : TP-100



(optional)



Real time data recorder SD CARD DATA LOGGER

Model : DL-9602SD

- * Real time SD memory card Data logger, it can cooperate with most LUTRON instruments if it is built-in the computer interface.
- * Innovation and easy operation, computer is not need to setup extra software, just takeaway the SD card from the DL-9602SD and plug it into the computer, then the measured values with the time information (year/month/date/hour/minute/second) can be downloaded to the Excel directly. User can make the further data or graphic analysis in the Excel by themselves.
- * Built-in Clock and Calendar, real time data recorder, sampling time can be set from 2 seconds to 8 hours 59 minutes 59 seconds.

- * Manual data logger is available (set the sampling time to 0), during executing the manual data logger function, it can set the different place location No. (place 1 to place 99).
- * SD card (optional) capacity : 1 GB to 16 GB.
- * Can set max. 9 channel data inputs with default.
- * DC 1.5V battery (UM-3 , AA) x 6 or DC 9V adapter in.
- * LCD with green light backlight, easy reading.
- * RS232/USB computer interface.

Humidity, Anemometer, Light, Type K/J ENVIRONMENT METER

Model : EM-9100

- * 4 in 1 : Humidity meter, Light meter, Anemometer, Type K/J thermometer.
- * Humidity : 10 to 95 %RH, 0 to 50 °C.
- * Light : 0 to 20,000 Lux.
- * Anemometer : 0.4 to 25 m/s.
- * Type K thermometer : -199.9 to 1300 °C, °C/°F.
- Type J thermometer : -199.9 to 1100 °C, °C/°F.
- * Unit select, Data hold, REC (max., min.).
- * Separate probe, easy operation.
- * RS232/USB interface, Record (max., min.).
- * Optional sound level probe, SL-417.
- * DC 9V battery (006P).
- * Type K Temp. probes (optional) : TP-01, TP-02A, TP-03, TP-04, refer page 47.
- * Patented.



DUAL THERMOMETER, RS-232 Model : TM-906A

- * μ -P circuit, LCD with display unit.
- * Range : -50 to 1230 °C.
- * Max., Min., Memory recall button.
- * °C/°F, 0.1°/1°, T1, T2, T1-T2.
- * Size : 180 x 72 x 32 mm.
- * RS232/USB computer interface.

DUAL THERMOMETER Model : TM-916

- * μ -P circuit, LCD with display unit.
- * Range : -50 to 1230 °C.
- * Max., Min., Memory recall button.
- * °C/°F, 0.1°/1°, T1, T2, T1-T2.
- * Size : 180 x 72 x 32 mm.



YK-2005 series

Real Time Data Logger

ANEMOMETER, Real time data logger + air flow

Model : YK-2005AM

- * High capacity, 16,000 data logger point.
- * Real time data logger (record year, month, date, hour, minute, second).
- * Air velocity, Air flow, Temp., type K/type J Thermometer.
- * Metal vane, heavy duty.
- * 0.4 to 30.0 m/s. CMM, CFM.
- * Max., Min., Data hold.
- * RS232/USB computer interface.
- * Optional data transmission softwares : SW-DL2005, SW-E2005.
- * Jumbo LCD display.
- * DC 1.5V (UM3, AA) x 4 PCs or DC 9V adapter in.
- * Size : 203 x 76 x 38 mm.



HOT WIRE ANEMOMETER, Real time data logger + air flow

Model : YK-2005AH

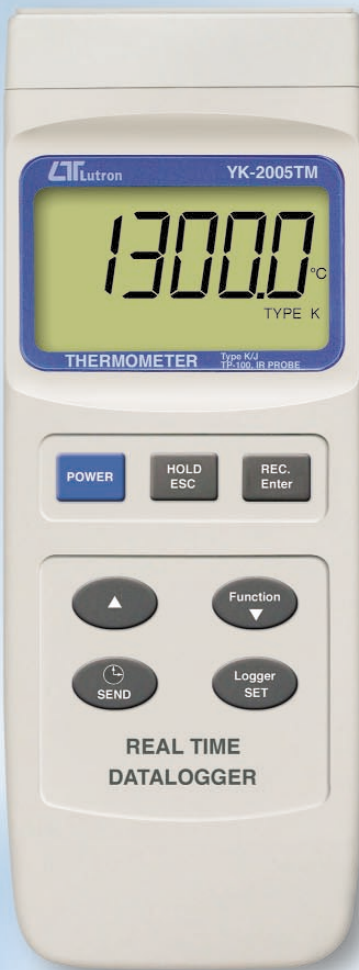
- * High capacity, 16,000 data logger point.
- * Real time data logger (record year, month, date, hour, minute, second).
- * Air velocity, Air flow, Temp., type K/type J Thermometer.
- * Hot wire anemometer, high precision for low air velocity measurement.
- * Telescope probe.
- * 0.2 to 20.0 m/s. CMM, CFM.
- * Max., Min., Data hold.
- * RS232/USB computer interface.
- * Optional data transmission softwares : SW-DL2005, SW-E2005.
- * Jumbo LCD display.
- * DC 1.5V (UM3, AA) x 4 PCs or DC 9V adapter in.
- * Size : 203 x 76 x 38 mm.

HOT WIRE ANEMOMETER, air flow

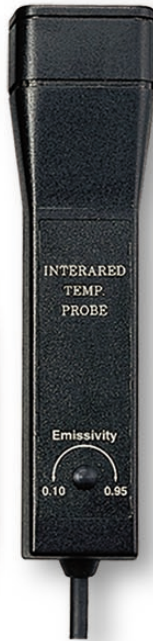
Model : YK-2004AH

- * Air velocity, Air flow (CMM, CFM), Temperature.
- * Hot wire anemometer, high precision for low air velocity measurement.
- * Telescope and separate probe, easy operation.
- * 0.2 to 20.0 m/s. CMM, CFM.
- * Max., Min., Data hold.
- * RS232/USB computer interface.
- * Jumbo LCD, unit with dot matrix display.
- * DC 1.5V (UM-3, AA) x 4 PCs or DC 9V adapter in.
- * Size : 203 x 76 x 38 mm.





Type K probe
 Pt-100 probe
 (optional)



IR probe
 YK-200PIR
 (optional)

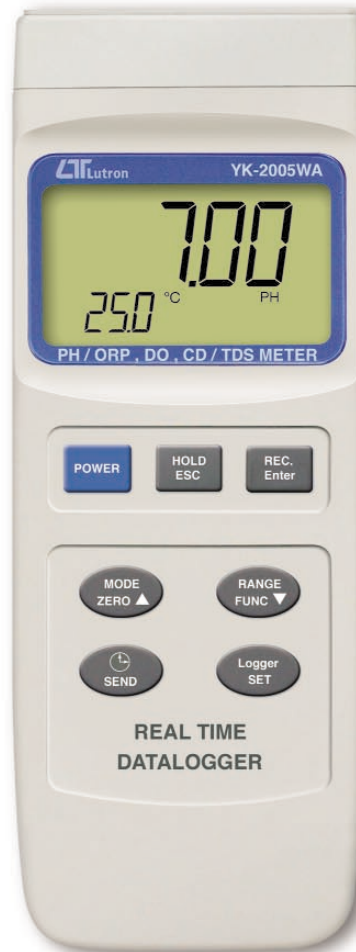


Multi-function THERMOMETER,
Real time data logger
Model : YK-2005TM

- * High capacity, 16,000 data logger point.
- * Real time data logger (record year, month, date, hour, minute, second).
- * Multi-functions : Type K, Type J, Pt100 ohm, Infrared Thermometer.
- * Type K : -100 to 1300 °C,
 Type J : -100 to 1100 °C,
 Pt 100 ohm : -200 to 850 °C.
- * Optional probes : Type K probe, Type J probe,
 Pt 100 Ω probe (PT-100P), IR probe.
- * Max., Min., Data hold, zero adjust.
- * RS232/USB computer interface.
- * Optional data transmission softwares :
 SW-DL2005, SW-E2005.
- * Jumbo LCD display.
- * DC 1.5V (UM3, AA) x 4 PCs or DC 9V
 adapter in.
- * Size : 203 x 76 x 38 mm.

LIGHT METER, Real time data logger
Model : YK-2005LX

- * High capacity, 16,000 data logger point.
- * Real time data logger (record year, month, date, hour, minute, second).
- * Ranges : 200/2,000/20,000/100,000 Lux.
- * Units : Lux, Feet-candle.
- * 4 light type selection.
- * Sensor meets C.I.E. spectrum, 2 filters.
- * Max., Min., Data hold, zero adjust.
- * RS232/USB computer interface.
- * Optional data transmission softwares : SW-DL2005, SW-E2005.
- * Jumbo LCD display.
- * DC 1.5V (UM3, AA) x 4 PCs or DC 9V adapter in.
- * Size : 203 x 76 x 38 mm.



DO
OXPB-11
(optional)



CD
CDPB-03
(optional)



pH
PE-03
PE-11
PE-01
PE-02
PE-08
(optional)



ATC
TP-07
(optional)

**CONDUCTIVITY METER,
Real time data logger**

Model : YK-2005CD

- * High capacity, 16,000 data logger no.
- * Real time data logger (record year, month, date, hour, minute, second).
- * Ranges : 200 uS/2 mS/20 mS/200 mS.
- * Automatic temp. compensation, ATC factor adj.
- * Carbon rod electrode for long life.
- * Max., Min., Data hold, zero adjust.
- * RS232/USB computer interface, Jumbo LCD.
- * Optional data transmission softwares : SW-DL2005, SW-E2005.
- * DC 1.5V (UM3, AA) x 4 or DC 9V adapter in.
- * Size : 203 x 76 x 38 mm.

PH/ORP, DO, CD/TDS METER

Model : YK-2005WA

- * One meter for multi purpose operations : pH/ORP, DO, CD/TDS METER.
- * pH : 0 to 14.00 pH, ORP : ± 1999 mV.
- * Conductivity : 200 uS/2 mS/20 mS/200 mS.
- * Dissolved oxygen : 0 to 20.0 mg/L.
- * ATC (automatic temperature compensation).
- * Real time data logger (record year, month, date, hour, minute, second), 16,000 data logger.
- * Max., Min., Data hold.
- * RS232/USB computer interface.
- * Optional data transmission softwares : SW-DL2005, SW-E2005.
- * Optional electrodes : pH, CD/TDS, DO, ATC probe.
- * Optional ORP electrode, ORP-14.
- * Jumbo LCD, unit with dot matrix display.
- * DC 1.5V (UM-3, AA) x 4 PCs or DC 9V adapter in.
- * Size : 203 x 76 x 38 mm.



4 light type, bar graph display, wide range LIGHT METER

Model : LX-1118

- * Large LCD display with bar graph.
- * 40.00/400.0/4,000/40,000/400,000 Lux.
- * Lux or Foot-candle unit selection.
- * 4 light type select, RS232/USB interface.
- * Sensor meets C.I.E. spectrum, 2 filters.
- * Data hold, Record (max., min.).
- * DC 1.5V battery (UM-4, AAA) x 6.



ANEMOMETER

Model : MY-81AP

- * Range : 0.4 to 25.0 m/s.
- * m/s, km/h, ft/min., knots, mile/h, Temp.
- * Temp. : 0 to 50 °C, °C/°F.
- * Low-friction ball vane wheels is accurate in both high & low velocity.
- * LCD show both air velocity and Temp. value.
- * Remote vane probe separately, easy operation.
- * RS232/USB computer interface.
- * Data hold, Record (Max., Min.).
- * DC 1.5V (UM-4, AAA) battery x 6.



HUMIDITY METER

Model : MY-91HT

- * Measurement : Humidity, Temp., Dew point.
- * Humidity range : 10 % to 95 % R.H.
- * Temp. range : 0 °C to 50 °C, 32 °F to 122 °F.
- * Dew point range : -25.3 °C to 48.9 °C.
- * Resolution : 0.01% RH, 0.01 degree.
- * Fast response time for humidity measurement.
- * 1,000 point data logger.
- * Optional data transmission software : SW-DL2005.
- * Remote vane probe separately, easy operation.
- * RS232/USB computer interface.
- * Data hold, Record (Max., Min.).
- * DC 1.5V (UM-4, AAA) battery x 6.



THERMOMETER, Type K/J/R/E/T

Model : TM-9126

- * Type K : -50 to 1300 °C, 0.1 °C/0.1 °F.
- * Type J : -50 to 1150 °C, 0.1 °C/0.1 °F.
- * Type T : -50 to 400 °C, 0.1 °C/0.1 °F.
- * Type E : -50 to 900 °C, 0.1 °C/0.1 °F.
- * Type R : 0 to 600 °C, 1 °C/1 °F.
- * Professional thermometer with multi-function.
- * Optional full range temperature probe.
- * RS232/USB computer interface.
- * Data hold, Record (Max., Min.).
- * DC 1.5V (UM-4, AAA) battery x 6.



Temp. probe (optional)

4 CH. Thermometer SD Card Data Recorder



4 channels THERMOMETER

Model : TM-946

- * Type K/J, Pt 100 ohm, 4 display.
- * 4 channels (T1, T2, T3, T4), T1-T2, °C/°F.
- * Display 4 channels Temp. at the same time.
- * Type K : -100 to 1300 °C.
- * Type J : -100 to 1200 °C.
- * Pt 100 ohm : -199 to 850 °C.
- * °C/°F, 0.1 degree/1 degree.
- * Data hold, Record (max., min.), Data logger.
- * Optional data transmission softwares : SW-DL2005, SW-2005.
- * RS232/USB computer interface, data logger.
- * Optional Type K Temp. probes, TP-01, TP-02A, TP-03, TP-04, refer page 47.
- * Optional Pt 100 ohm Temp. probe, TP-101.
- * DC 1.5V (UM-4, AAA) battery x 6 or DC 9V adapter in.



SD Card real time data recorder

4 channels THERMOMETER

Model : TM-947SD

- * Real time data logger, save the data into the SD memory card and can be downloaded to the Excel.
- * Type K/J/R/S/E/T, Pt 100 ohm, 4 displays.
- * 4 channels (T1, T2, T3, T4), T1-T2, °C/°F.
- * Display 4 channels Temp. at the same time.
- * Type K : -100 to 1300 °C.
- * Type J : -100 to 1150 °C.
- * Pt 100 ohm : -199 to 850 °C.
- * °C/°F, 0.1 degree/1 degree.
- * Data hold, Record (max., min.).
- * RS232/USB computer interface.
- * Optional type K Temp. probes : TP-01, TP-02A, TP-03, TP-04, TP-05.
- * Optional Pt-100 ohm Temp. probe, TP-101.
- * Patented.



Optional Temp. probe

ENVIRONMENT METER

Humidity, Anemometer, Light, Type K/J

Model : EM-9000

- * 4 in 1 : Humidity meter, Light meter, Anemometer, Type K/J thermometer.
- * Humidity : 10 to 95 %RH, 0 to 50 °C.
- * Light : 0 to 20,000 Lux.
- * Anemometer : 0.4 to 25 m/s.
- * Type K thermometer : -200 to 1300 °C, °C/°F.
- Type J thermometer : -200 to 1100 °C, °C/°F.
- * Unit select, Data hold, REC (max., min.).
- * 1600 Data logger point.
- * Optional data transmission softwares : SW-DL2005, SW-E2005.
- * Separate probe, easy operation.
- * RS232/USB interface, Record (max., min.).
- * Optional sound level probe, SL-417.
- * DC 9V battery (006P) or DC 9V adapter in.



T1, T2, T1-T2, two displays

TWO CHANNEL THERMOMETER

Model : TM-925

- * T1, T2, T1-T2, Type K/J.
- * °C/°F, 0.1 degree/1 degree.
- * Type K : -100 to 1300 °C.
- * Type J : -100 to 1200 °C.
- * Data hold, Record (max., min.).
- * 1600 Data logger point.
- * Optional data transmission softwares : SW-DL2005, SW-E2005.
- * RS232/USB interface, data logger.
- * DC 9V battery (006P) or DC 9V adapter in.



ANEMOMETER, + type K/J Temp.

Model : AM-4210

- * Air velocity measurement, pocket size.
- * 0.4 to 25.0 m/s, ft/min., km/h. knots.
- * Low friction ball-bearing vane.
- * 1600 Data logger point.
- * Optional data transmission softwares : SW-DL2005, SW-E2005.
- * Separate probe, high reliability.
- * Type K Thermometer : -200 to 1300 °C, °C/°F.
- * Type J Thermometer : -200 to 1100 °C, °C/°F.
- * RS232/USB interface, Record (max., min.).
- * DC 9V battery (006P) or DC 9V adapter in.



LIGHT METER, + Type K/J TEMP.

Model : LX-110

- * 0 to 20,000 Lux, 0 to 2,000 Ft-cd. auto range.
- * Sensor meets C.I.E. spectrum.
- * Light sensor with 2 filters, professional quality.
- * Data hold, Record (max., min.).
- * 1600 Data logger point.
- * Optional data transmission softwares : SW-DL2005, SW-E2005.
- * Separate probe, easy operation.
- * Type K Thermometer : -199.9 to 1300 °C, °C/°F.
- * Type J Thermometer : -199.9 to 1100 °C, °C/°F.
- * RS232/USB computer interface.
- * DC 9V battery (006P) or DC 9V adapter in.



DISSOLVED OXYGEN METER, *two displays*

Model : DO-5519

- * Range : 0 to 20 mg/L x 0.1 mg/L.
- * Temperature : 0 to 50 °C.
- * LCD display, pocket size.
- * Automatic temperature compensation.
- * 1600 Data logger point.
- * Optional data transmission softwares : SW-DL2005, SW-E2005.
- * Separate probe, easy operation.
- * RS232/USB interface, Record (max., min.)
- * Power : DC 9V battery (006P) or DC 9V adapter in.

CONDUCTIVITY METER,

ATC, two displays

Model : CD-4322

- * 3 ranges : 2 mS, 20 mS, 100 mS.
- * Temperature measurement, °C/ °F.
- * LCD display, pocket type.
- * Automatic temperature compensation.
- * 1600 Data logger point.
- * Optional data transmission softwares : SW-DL2005, SW-E2005.
- * Separate probe, easy operation.
- * RS232/USB interface, Record (max., min.)
- * DC 9V battery (006P) or DC 9V adapter in.



PH METER, *ATC, two displays*

Model : PH-221

- * 0 to 14.00 pH, ±1,999 mV.
- * LCD show both pH and the temperature.
- * ATC or manual TEMP. compensation.
- * Auto calibration for pH 4, pH 7 and pH 10.
- * Optional pH electrode and the ATC probe.
- * 1600 Data logger point.
- * Optional data transmission softwares : SW-DL2005, SW-E2005.
- * RS232/USB computer interface.
- * DC 9V battery (006P) or DC 9V adapter in.



pH electrode
(Optional)

PH METER, *economical type*

Model : PH-211

- * 0 to 14 pH x 0.01 pH.
- * Temp. compensation adjustment is not necessary.
- * Pocket size, LCD display.
- * Optional wall mount holder(WH-08) is available for monitoring usage.
- * DC 9V battery (006P).
- * Size : 135 x 60 x 33 mm.



pH electrode
(Optional)



**economical type
POCKET HUMIDITY METER,**

Model : HT-305

- * Measurement : Humidity, Temp., Dew point
- * Pocket and compact housing case.
- * Fast response time.
- * Humidity : 10 to 95 %RH , Temp. : 0 to 50 °C.
- * Resolution : 0.1 %RH, 0.1 degree.
- * DC 9V battery (006P).
- * Separate probe.
- * Size : 135 x 60 x 33 mm.



**80 °C, wide temperature, RS232/USB
POCKET HUMIDITY METER**

Model : HT-315

- * Measurement : Humidity, Temp., Dew point.
- * Pocket and compact housing case.
- * Fast response time.
- * Humidity : 10 to 95 %RH , Temp. : 0 to 80 °C.
- * Resolution : 0.01 %RH, 0.01 degree.
- * Data logger with 1000 reading value.
- * DC 9V battery or AC/DC adapter power in.
- * RS232/USB interface, separate probe.
- * Size : 135 x 60 x 33 mm.



**all in 1, RS232/USB
HUMIDITY/TEMP. METER**

Model : HT-306

- * Measurement : Humidity, Temp., Dew point
- * Humidity : 10 to 95 %RH, Temp. : 0 to 50 °C.
- * Resolution : 0.01 %RH, 0.01 degree.
- * Fast response time.
- * Data hold, Record (max., min.).
- * Meter is built-in probe, all in one, easy operation.
- * RS232/USB computer interface.
- * DC 9V battery (006P) or DC 9V adapter in.



CASE WALL HOLDER

Model : WH-08

- * Optional accessory (case wall holder) for TM-925, EM-9000, AM-4210, LX-110, DO-5519, PH-211, PH-221, CD-4312, CD-4322, HT-305, HT-306 HT-315.

CD

POCKET CONDUCTIVITY METER

Model : CD-4302

- * 12.5 mm(0.5 ") LCD, max. display 1999.
- * 2 ranges : 0 -1.999 mS, 2 -19.99 mS.
- * Automatic temperature compensation.
- * Size : 131 x 70 x 25 mm, Pocket size.



pH

PH METER, pocket

Model : PH-201

- * 0 to 14 pH x 0.01 pH.
- * Economical type, pocket size.
- * Accuracy : ± 0.1 pH (pH 4 to pH 10)
- * Size : 131 x 70 x 25 mm, 13 mm LCD.
- * PH electrodes (optional) : PE-01, PE-03, PE-04HD, PE-06HD, PE-11, refer to page 70.

(optional)



PURE WATER TESTER

Model : WA-300

- * Water conditioning, home, aquariums, food processing, photography, school, laboratory, industry & quality control.
- * Check the condition of water filter.
- * Measurement : 0 to 1999 μ S.



ORP



ORP METER

Model : ORP-203

- * Range : -1999 mV to + 1999 mV.
- * High impedance, pocket size.
- * Size : 131 x 70 x 25 mm, 13 mm LCD.

ORP ELECTRODE, professional

Model : ORP-14

- * Professional ORP electrode with high accuracy and extreme reliability.
- * Epoxy body, with BNC connector.
- * Size : 12.5mm Dia. x 120 mm.

(optional)



DO



DISSOLVED OXYGEN METER

Model : DO-5509

- * Range : 0 to 20 mg/L.
- * ATC. Resolution : 0.1 mg/L.
- * Pocket size, 13 mm LCD.
- * Size : 131 x 70 x 25 mm.



ANEMOMETER

Model : AM-4200

- * 0.8 to 30.0 m/s, ft/min., km/h, knots.
- * Pocket size, economical cost.
- * Low-friction ball-bearing vane.
- * 131 x 70 x 25 mm, Sensor - 72 mm dia.
- * Separate probe, high reliability.



SPARE PROBE HEAD WITH DIAPHRAGM SET

Model : OXHD-04

- * Exclusive DO probe head with diaphragm set for DO-5509, DO-5510, YK-22DO, YK-2005DO, PDO-519, PDO-520, DO-5519, DO-5510HA and YK-200PDO.



PROBE-FILLING ELECTROLYTE

Model : OXEL-03

- * Exclusive probe-filling electrolyte for oxygen probe of the DO-5509, DO-5510, YK-22DO, YK-2005DO, PDO-519, PDO-520, DO-5519, DO-5510HA and YK-200PDO.
- * Bottle size : 3.8 cm Dia. x 7 cm.



LIGHT METER Model : LX-100

- * LX-100 : 2,000 Lux, 20,000 Lux.
- * Sensor meets C.I.E. photopic spectrum .
- * Economical cost, professional quality.
- * Separate probe.
- * Size : 131 x 70 x 25 mm.



LIGHT METER Model : LX-101A

- * 3 ranges : 2,000, 20,000 Lux, 50,000 Lux.
- * Spectrum meets C.I.E. photopic spectrum.
- * Sensor with 2 filters, professional quality.
- * Separate probe, Size : 131 x 70 x 25 mm.



LIGHT METER Model : LX-100F

- * LX-100F : 200, 2,000 Foot-candle.
- * Sensor meets C.I.E. photopic spectrum .
- * Economical cost, professional quality.
- * Separate probe.
- * Size : 131 x 70 x 25 mm.



Auto range, LIGHT METER Model : LX-113S

- * 2,000/20,000/50,000 Lux , Auto range.
- * Lux & Ft-candle unit select.
- * Sensor with color correction, 2 filters.
- * Sensor spectrum meets C.I.E.
- * Zero key function.
- * Separate light probe, easy operation
- * Microprocessor circuit.
- * Size : 131 x 70 x 25 mm.
- * DC 9V battery (006 P).



UV LIGHT METER, pocket Model : UV-340A

- * Spectrum : 290 nm -390 nm.
- * Application : UVA & UVB measurement.
- * 2 ranges :
1999 $\mu\text{W}/\text{cm}^2 \times 1 \mu\text{W}/\text{cm}^2$.
19990 $\mu\text{W}/\text{cm}^2 \times 10 \mu\text{W}/\text{cm}^2$.
- * Pocket size.
- * Microprocessor circuit.
- * Separate probe easy operation.

DUAL CHANNEL THERMOMETER Model : TM-914C

- * Range : -40 to 1200 °C.
- * Type K, dual channel, pocket size.
- * Size : 131 x 70 x 25 mm.



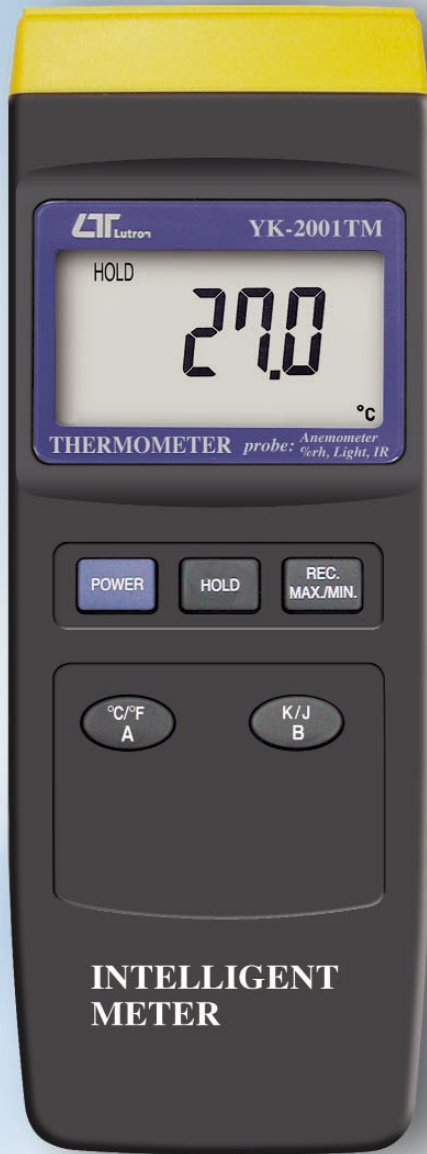
DUAL CHANNEL THERMOMETER Model : TM-914F

- * Range : -40 to 2000 °F.
- * Type K, dual channel, pocket size.
- * Size : 131 x 70 x 25 mm.



EMF TESTER Model : EMF-822A

- * Electromagnetic field radiation tester.
- * 20 micro Tesla x 0.01 micro Tesla
- * 200 milli Gauss x 0.1 milli Gauss
- * Display : 13 mm LCD. Pocket size.
- * Size : 131 x 70 x 25 mm



INTELLIGENT THERMOMETER

Model : YK-2001TM

* Type K/J thermometer with "plug and play" function.

* Type K (-100 to 1300 °C),
Type J (-100 to 1150 °C).

* Be plugged with an optional "plug & play" probe :
YK-200PAL, YK-200PAS, YK-200PAM,
YK-200PIR or YK-200PLX to be a professional
Anemometer, Mini Vane Anemometer, Infrared
Thermometer or Light Meter.

* RS232/USB, Hold, Memory record, °C/°F, 0.1 degree.



TP-01 TP-02A TP-03 TP-04

TYPE K TEMPERATURE PROBE

TP-01 : -40 to 250 °C, Naked-bead.

TP-02A: -50 to 900 °C, 3.2 mm Dia. x 12 cm.

TP-03 : -50 to 1200 °C, 8 mm Dia. x 13.6 cm.

TP-04 : -50 to 400 °C, surface probe.



LIGHT PROBE

Model : YK-200PLX

* Plug in the YK-2001TM to be a professional Light Meter.

* Lux : 2,000 - 50,000 Lux, 3 ranges.

* Foot-candle : 200 - 5,000 Fc, 3 ranges.

* Units : Lux, Foot-candle (Fc).



MINI VANE ANEMOMETER PROBE

Model : YK-200PAS

* Plug in the YK-2001TM to be a professional Mini Vane Anemometer.

* Range : 0.8 - 12.0 m/s x 0.1 m/s.

* Units : m/s, ft/min., km/h, mile/h, knots,
°C/°F.



ANEMOMETER PROBE

Model : YK-200PAL

* Plug in the YK-2001TM to be a professional Anemometer.

* Range : 0.4 - 25.0 m/s x 0.1 m/s.

* Units : m/s, ft/min., km/h, mile/h,
knots, °C/°F.



Metal ANEMOMETER PROBE

Model : YK-200PAM

* Plug in YK-2001TM to be used as a professional Anemometer.

* Range : 0.4 to 35 m/s.

* m/s, km/h, MPH, knots, ft/min, °C/°F.

* Metal probe, heavy duty.



INFRARED TEMPERATURE PROBE

Model : YK-200PIR

* Plug in the YK-2001TM to be a professional non contact Infrared Thermometer.

* -10 to 300°C, 1 °C/ 1 °F.

* Emissivity : 0.95.



INTELLIGENT PH METER

Model : YK-2001PH

- * pH Meter with mV and " plug and play " functions.
- * pH (0.00 to 14.00 pH), mV (± 1999 mV).
- * Manual temp. compensation adj. or ATC via the optional temp. probe (YK-200PATC).
- * Be plugged with an optional " plug & play " probe : YK-200PCT, YK-200PCD or YK-200PDO to be a professional Conductivity Meter, TDS Meter or Dissolved Oxygen Meter.
- * RS232/USB, Hold, Memory record, °C/°F, 0.1 degree.
- * Patented.



PH electrodes :

PE-03, PE-11, PE-01, PE-02, PE-08, PE-04HD, PE-06HD.

ORP electrode : ORP-14

(Refer to page 70)



CONDUCTIVITY PROBE

Model : YK-200PCD

- * Plug in the YK-2001PH to be a professional Conductivity Meter.
- * Conductivity : 2/20 mS, 2 ranges
- * Temperature : 0 to 60.0 °C, 0.1°C/0.1°F.
- * ATC & variable temp. compensation factor adjustment (0 to 5.0% per °C).



CONDUCTIVITY / TDS PROBE

Model : YK-200PCT

- * Plug in the YK-2001PH to be a professional Conductivity and TDS Meter.
- * Conductivity : 2/20 mS, 2 ranges
- * TDS : 2000/20,000 PPM, 2 ranges
- * Temperature : 0 to 60.0 °C, 0.1°C/0.1°F.
- * ATC & variable temp. compensation factor adj.



DISSOLVED OXYGEN PROBE

Model : YK-200PDO

- * Plug in the YK-2001PH to be a professional Dissolved Oxygen Meter.
- * Range : 0 - 20.0 mg/L, 0.1 mg/L.
- * With automatic temp. compensation.
- * Temperature : 0 to 50.0 °C, 0.1°C/0.1°F.
- * Probe head with diaphragm set and electrolyte are included.



ATC PROBE

Model : YK-200PATC

- * Plug in the YK-2001PH to be a ATC (Automatic Temperature Compensation) probe to gain the Max. possible accuracy.
- * Temp. range : 0 to 65 °C, 32 to 149 °F.



SOFTWARE FOR INTELLIGENT INSTRUMENTS

Model : SW-U801-WIN

- * For windows 98, 2000, XP, Vista, WIN 7.
- * Data logging system, data recorder.
- * Details refer to page 91.

RS232 CABLE FOR INTELLIGENT INSTRUMENTS

Model : UPCB-02

- * Details refer to page 83.

USB CABLE

Model : USB-01

- * Details refer to page 83.

Intelligent Meter Heavy Duty SERIES



TYPE K TEMPERATURE PROBE

- TP-01 : -40 to 250 °C, Naked-bead.
- TP-02A : -50 to 900 °C, 3.2 mm Dia. x 12 cm.
- TP-03 : -50 to 1200 °C, 8 mm Dia. x 13.6 cm.
- TP-04 : -50 to 400 °C, surface probe.



HUMIDITY PROBE

Model : HD-200PRH

- * Plug in the HD-200PRH to be used as a professional Humidity/Temp. meter.
- * Humidity : 10 to 95 %RH, 0.1 %RH.
- * Temperature : 0 to 50.0 °C x 0.1 °C. 32 to 122 °F x 0.1 °F.



ANEMOMETER PROBE

Model : HD-200PAL

- * Plug in the HD-200PAL to be used as a professional Anemometer.
- * Range : 0.4 to 25.0 m/s x 0.1 m/s.
- * Unit : m/s, ft/min., km/h, mile/h, knots, °C/°F.
- * Temperature : 0 to 50.0 °C x 0.1 °C. 32 to 122 °F x 0.1 °F.

INTELLIGENT METER

Model : EM-9200

- * Meter is built-in the type K/J thermometer with "plug and play" function.
- * Type K thermometer : -199.9 to 1300 °C, °C/°F.
- * Type J thermometer : -199.9 to 1100 °C, °C/°F. °C/°F, 0.1degree.



LIGHT PROBE

Model : HD-200PLX

- * Plug in the HD-200PLX to be used as a professional Light meter.
- * Lux : 0 to 20,000 Lux, auto range.
- * Foot-candle : 0 to 2,000 Ft-cd, auto range.
- * Unit : Lux, Foot-candle (Ft-cd).

- * Be plugged with an optional "plug & play" probe : HD-200PRH, HD-200PAL, HD-200PLX or SL-417 to be a professional Humidity meter, Anemometer, Light meter or Sound level meter.
- * RS232/USB interface, Hold, Memory record.
- * Type K Temp. probes (optional) : TP-01, TP-02A, TP-03, TP-04.

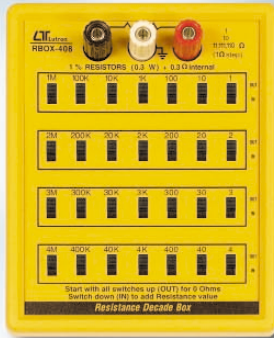


SOUND ADAPTER

Model : SL-417

- * Plug in the SL-417 to be used as a professional sound level meter.
- * Frequency and the weighting meet IEC 61672, class 2.
- * A frequency weighting.
- * Range : 3 ranges, 30 to 130 dB.
- * External calibration adj. VR.

R Box

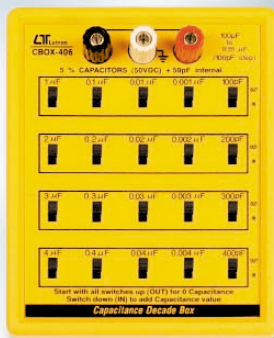


RESISTANCE DECADE BOX

Model : RBOX-408

- * 1 to 11,111,110 ohm, 1 ohm per step.
- * Wattage : 1W
- * Slide switches that allow the user to simply add or subtract for desired value.
- * With seven decades of resistance.
- * ABS plastic housing case, rugged components.
- * Education, Maintenance, Production line, Working standards, Research, laboratory applications.
- * Size : 147 x 117 x 51 mm.

C Box

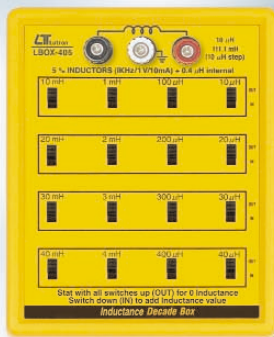


CAPACITANCE DECADE BOX

Model : CBOX-406

- * 100 pF to 11,111 μF, 100 pF per step.
- * Slide switches that allow the user to simply add or subtract for desired value.
- * With five decades of capacitance.
- * ABS plastic housing case, rugged components.
- * Education, Maintenance, Production line, Working standards, Research, laboratory applications.
- * Size : 147 x 117 x 51 mm.

L Box



INDUCTANCE DECADE BOX

Model : LBOX-405

- * 10 uH to 111.1 mH, 10 uH per step.
- * Slide switches that allow the user to simply add or subtract for desired value.
- * With four decades of inductance.
- * ABS plastic housing case, rugged components.
- * Education, maintenance, Production Line, Working standards, Research, Laboratory applications.
- * Size : 147 x 117 x 51 mm.

pH



pH BENCH METER

Model : PH-202

- * 0 to 14 pH x 0.01 pH.
- * Bench type pH meter.
- * Accuracy : ±0.1 pH (pH 4 to pH 10).
- * Easy operation.
- * Water resistance on the front panel.
- * Applications : Education, School, Laboratory, Industrial & Quality control.
- * Size : 147 x 117 x 51 mm.

with Temp. compensation adj.

pH BENCH METER

Model : PH-214



DCV BENCH METER

Model : DV-101

- * Ranges : DC 200 mV/2 V/20 V/200 V.
- * LCD display, 18 mm digit height.



ACV BENCH METER

Model : AV-102

- * Ranges : AC 2 V/20 V/200 V/600 V.
- * LCD display, 18 mm digit height.



DCA BENCH METER

Model : DA-103

- * Ranges : DC 2 mA/20 mA/200 mA/5 A.
- * LCD display, 18 mm digit height.



ACA BENCH METER

Model : AA-104

- * Ranges : AC 2 mA/20 mA/200 mA/5 A.
- * LCD display, 18 mm digit height.
- * Applications : Education, Maintenance, Production line, Working standards, Research, laboratory.

Green Power and Smart

Green Power and Smart



**true RMS, auto range
CAT III 1000V TRUE RMS DMM
Model : DM-9961**

- * CAT III-1000V, 4000 counts, auto/manual range.
- * Large LCD, digit height 23 mm.
- * ACV, ACA, DCV, DCA, ohms, continuity buzzer.
- * Hz/Duty cycle, Capacitance, diode.
- * Data hold, Relative, range hold.
- * 10 Amp. current with fuse protection.



**Green power, hybrid power
SMART MULTIMETER
Model : DM-9982G**

- * Power supply from generator (battery is no need) or battery power.
- * Smart operation, 2 intelligent functions : V, Ω .
- * V : ACV, DCV measurement automatically.
- * Ω : Ohm, Diode, Continuity, Cap. automatically.
- * Large LCD display, 6,000 counts.
- * CAT III-600V.
- * Auto power off.
- * DIY version, easy operation.
- * Size : 151 x 78 x 43 mm.
- * Patented.



**Green power, hybrid power
SMART MULTIMETER
Model : DM-9983G**

- * Power supply from generator (battery is no need) or battery power.
- * Smart operation, 3 intelligent functions : V, Ω , A.
- * V : ACV, DCV measurement automatically.
- * Ω : Ohm, Diode, Continuity, Cap. automatically.
- * A : DCA, ACA, 10A/60mA/600mA.
- * Function Keys : Hold / Select / Hz / Range.
- * Large LCD display, 6,000 counts.
- * CAT III-600V, Auto power off.
- * Size : 151 x 78 x 43 mm.
- * Patented.



**CAT III-1000V AUTO RANGE DMM, bar graph
Model : DM-9960**

- * CAT III-1000V, bar graph, super large LCD.
- * 4000 counts, auto/manual range.
- * ACV, ACA, DCV, DCA, ohms, continuity buzzer.
- * Hz, Capacitance, Temperature, diode.
- * Peak, Data hold, Relative, Max//Min.
- * Range Hold, RS-232 interface.
- * 10 Amp. current with fuse protection.



**3 1/2 digits DMM, Multi-functions
Model : DM-9090**

- * Multi-functions, 40 ranges, DCV, ACV, ohms, DCA/ACA(10A), hFE, Diode, Hz, Temp., Capacitance, Beeper.
 - * Size : 185 x 87 x 39 mm. 18 mm LCD.
- Model : DM-9080**
DCV, ACV, DCA, ACA, ohms, hFE, Diode only.



**Kits, RS232 cable + software + carrying case
MULTIMETER**

- Model : DM-9680 KITS**
- * Photo couple isolate RS232/USB interface.
 - * Multi-functions, 29 ranges, DCV, ACV, ohms, DCA, ACA, hFE, Diode, Beeper.
 - * Whole set with DMM, RS232 cable, carrying case & application software.
 - * USB cable, USB-01 is optional.
 - * Meter size : 185 x 87 x 39 mm. 18 mm LCD.



**4 1/2 digits DMM, true rms
Model : DM-9027T**

- * 30 ranges, 15 mm LCD with display unit.
- * DCV, ACV, ACA, DCA(10A), ACA(10A), ohms, hFE, Diode, Hold, Beeper.
- * Size : 185 x 87 x 39 mm.



**AUTO RANGE DMM
Model : DM-9092**

- * Bar graph, 3200 counts.
- * DCV, ACV, DCA(10A), ACA(10A), ohms, hFE, Diode, Range/Data hold.
- * Size : 172 x 86 x 30 mm.



**POCKET DMM
Model : DM-9020**

- * Multi-functions, pocket size.
- * 26 ranges, DCV, ACV, ohms, hFE, DCA(2A), ACA(2A), Diode.
- * Size : 120 x 72 x 37 mm. .

LCR, Capacitance Holster

SERIES

SMD TESTER

Model : SMDA-22

* Optional SMD tester for LCR-9184, LCR-9183.

* Useful tool for SMD components (Resistor, Capacitor, Inductor) LCR value measurement.



SMD TEST CLIP

Model : SMDC-21

* Optional SMD test clip for LCR-9184, LCR-9183.

* Useful test clip for SMD components (Resistor, Capacitor, Inductor) LCR value measurement.

HEAVY DUTY TEST LEAD

Model : TL-339R

Model : TL-88

* CATIII-1000V approval.

* CATIII-1000V.

* For EUROPE usage. * High quality test lead with silicon rubber.

HEAVY DUTY ALLIGATORS

Model : AL-05

* Heavy duty alligators for TL-88.

* CATII-1000V approval, black & red suitable for banana plug and wire direct connection.



ALLIGATOR TEST LEAD

Model : TL-02AS

* High quality test lead with silicon rubber wire & alligator clip sets.

SMD TEST CLIPS

Model : TLSM-15

* The test clips used for measuring the SMD components (resistor, capacitor, inductor, diode..)

* Cable length : approx x 90 cm.



100 Hz/120 Hz/1 KHz/10 KHz/100 KHz

LCR METER, professional

Model : LCR-9184, LCR-9183

* Auto LCR smart check and measurement.

* 100 Hz/120 Hz/1 KHz/10 KHz/100 KHz

* Test ranges : (ex : F = 1 KHz)

L : 200.00 uH to 2000.0 H

C : 2000.0 pF to 2.000 mF

R : 20.000 to 200.0 M

* Series/Parallel modes are selectable.

* DCR mode 200.00 to 200.0M

* Ls/Lp/Cs/Cp with D / Q // ESR Parameter.

* RS232/USB computer interface.

* Optional data acquisition software, SW-E803.

* Optional SMD test clips, SMDC-21.

* Optional SMD tester, SMDA-22.

POCKET LCR METER

Model : LCR-9063

* Pocket size, 13 mm LCD, Max. 1999.

* L- 5 ranges, 2 mH to 20 H.

C- 6 ranges, 2 nF to 200 uF.

R- 6 ranges, 200 ohm to 20 M ohm.

* Economical type.

* Size : 120 x 72 x 37 mm.



LCR

LCR METER

Model : LCR-9083

* Inductance, Capacitance, Resistance, Diode.

* L : 5 ranges, 2mH to 20H.

C : 6 ranges, 2 nF to 200 uF.

R : 6 ranges, 200 ohm to 20 M ohm.

* Size : 185 x 87 x 39 mm, 18 mm LCD.

CAPACITANCE METER

MODEL : DM-9023

* 9 ranges, 200pF, 2nF, 20nF, 200nF,

2 uF, 20 uF, 200 uF, 2000 uF, 20000 uF.

* Rotary sw., 18 mm LCD, Max. 1999.

* Size : 185 x 87 x 39 mm.

HOLSTER

Model : HS-01

* High quality rubber protective holster.

* Application for : DM-9090, DM-9080, DM-9027T, DM-9030, DM-9680, LCR-9083, DM-9023.

Model : HS-02

* Refer to page 37.

Model : HS-03

* Holster for DM-9960, DM-9961.



AC / DC Clamp ACA Leakage Fork Current Tester



2000 A DCA/ACA CLAMP METER + DMM, True rms

Model : CM-9930

- * Heavy duty, CATIII-1000V.
- * 4,000 counts.
- * Auto range, Panel water resistance.
- * ACA(2000A, 400A), DCA(2000A, 400A), DCV, ACV, Capacitance, Frequency, Duty cycle, Relative, Continuity, ohms.
- * 51 mm measuring conductor size.
- * 240 μ A - 240 mA small direct current input.
- * Size : 255 x 73 x 38 mm.

Smart



ACA LEAKAGE TESTER, auto range

Model : DL-9954

- * High precision mA leakage measuring.
- * ACA 40 mA x 0.01 mA
- * ACA 400 mA x 0.1 mA
- * ACA 40 A, 120 A.
- * Ohms, Diode, Continuity beeper, hold.
- * AC voltage, DC voltage.
- * LCD display.
- * DC 1.5V battery (UM-3, AA) x 2.



SMART CLAMP METER

Model : CM-9941

- * Heavy duty, CAT III 600V.
- * Smart operation, built-in 3 intelligent functions : A, V, Ω , Hz
- * V " function can choose the ACV, DCV automatically with auto range.
- * Ω " function can choose the Resistance, Diode, Continuity beeper, Capacitance automatically with auto range.
- * A " function can measure ACA (600A, 60A) with auto range.
- * 6,000 counts display.
- * 30 mm measuring conductor size.
- * Size : 178 x 64 x 33 mm.



Mini DCA/ACA CLAMP METER

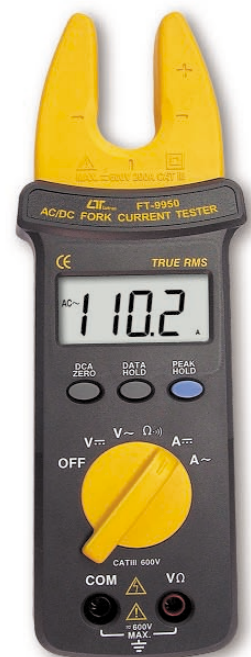
Model : CM-9940

- * Heavy duty, CATIII-600V.
- * 4,000 counts.
- * Auto range, Panel water resistance.
- * ACA(600A, 400 A), DCA (600A, 400A), DCV, ACV, Hz, Continuity, Diode, ohms.
- * 30 mm measuring conductor size.
- * Size : 178 x 64 x 33 mm.

AC/DC FORK CURRENT TESTER

Model : FT-9950

- * Heavy duty, CATIII-600V.
- * Fork current probe for both ACA and DCA.
- * ACA (200 A x 0.1 A), DCA (200 A x 0.1 A).
- * DCV, ACV, ohms, Continuity beeper.
- * Data hold, Peak hold, DCA zero.
- * Hall effect sensor for current sensing.
- * DC 9V battery (006P).



Clamp, Power Clamp ACA Leakage SERIES

**Green power, Hybrid power
CLAMP METER, smart**
Model : CM-9942G



- * Power supply from generator (battery is no need) or battery power.
- * Smart operation, functions : A, V, Ω .
- * V : ACV, DCV.
- * Ω : Resistance , Diode, Continuity, Capacitance.
- * A : ACA (600A, 1000A) with auto range.
- * Function key : Hz, Hold.
- * Heavy duty, CAT III-600V.
- * Patented.

POWER CLAMP METER, low power
Model : PC-6009

- * High watt resolution : min. 1 watt.
- * Watt (AC, true, 2,000/10,000 W).
- * ACA (200A, 600A), AC 600V, DC 200V, 2 K ohms, diode.
- * Size : 230 x 74 x 38 mm.



POWER CLAMP METER, high power
Model : PC-6010

- * Watt resolution : min. 10 watt.
- * Watt (AC, true, 20 KW/100 KW).
- * ACA (200A, 600A), AC 600V, DC 200V, 2 K ohms, diode.
- * Size : 230 x 74 x 38 mm.



ACA LEAKAGE TESTER, auto range
Model : DL-9954

- * High precision mA leakage measuring.
- * ACA 40 mA x 0.01 mA
- * ACA 400 mA x 0.1 mA
- * ACA 40 A, 120 A.
- * Ohms, Diode, Continuity beeper, hold.
- * AC voltage, DC voltage.
- * LCD display.
- * DC 1.5V battery (UM-3, AA) x 2.



ACA LEAKAGE TESTER
Model : DL-6054

- * AC 200 mA x 0.1 mA, AC 20 A x 0.01 A, AC 200A x 0.1 A.
- * High precision mA leakage measuring.
- * Size : 180 x 47 x 35 mm.



DCA/ACA CLAMP METER
Model : DM-6058

- * ACA(200A, 2000A), DCA(200A, 1000A), DCV, ACV, ohms, Diode, Data hold, Peak hold.
- * Size : 230 x 70 x 36 mm.



MINI ACA CLAMP METER
Model : DM-6053

- * ACA 20A x 0.01 A, ACA 200A X 0.1 A
- * DCV, ohms, Data hold, 13 mm LCD.
- * Precision low ACA measurement.
- * Size : 180 x 47 x 35 mm.



ACA CLAMP METER
Model : DM-6007

- * 3 ranges (600 A, 200 A, 20 A) for ACA.
- * 20 A range for measuring low current precisely.
- * Measure ACA on the inductive conductor.
- * Multi-function for ACA, ACV, DCV, OHMS, Diode, Continuity beeper measurement.
- * Max. Conductor Size : 37 mm Dia.



DCA/ACA CLAMP METER
Model : DM-6046

- * DCA (200A, 1000A), ACA (200A, 1000 A).
- * DCV, ACV, ohms, Diode, Data hold.
- * Heavy duty, economical cost.
- * Size : 230 x 70 x 36 mm.



AUTOMOTIVE TESTER

Model : DM-9030

- * DCV, ACV, ohms, Hz, Temp., Diode, DCA, ACA, RPM, DWELL, Beeper.
- * 10 Mega ohm impedance, 18 mm LCD.
- * Size : 185 x 87 x 39 mm.



VACUUM METER

Model : VC-9200

- * 1125 torr x 1 torr, 1500 mbar x 1 mbar.
- * Units : torr, mm Hg, micron, KPa, Pa, inch Hg, psi.
- * RS232, Hold, Record (Max., Min.).
- * Heavy duty vacuum sensor is used for air, oil gas...
- * Applications : Automobile, Industrial, laboratory, heating, ventilation, medical hospital...



Vacuum

200 AMP CURRENT SHUNT

Model : LS-04

- * Optional current shunt for DM-9030, DM-9131



DCA/ACA CURRENT ADAPTER

Model : CA-203 (200 A, 2000 A)

Model : CA-502 (200 A, 1000 A)

- * DCA Output : 1 DCmV/1 DCA.
- * ACA Output : 1 ACmV/1 ACA.
- * CA-203 : 210 x 64 x 33 mm
- * CA-502 : 185 x 78 x 30 mm



Engine RPM

GASOLINE TACHOMETER

Model : DT-2237A

- * Non-contact engine RPM measuring.
- * Available the automobile engine, motorcycle engine, generator engine. 4 cycle & 2 cycle select switch, available the automobile engine, motorcycle engine, generator engine...
- * Secondary tach. measuring method, no matter what cylinder is.
- * 10 to 40,000 RPM x 1 RPM, 0.05% accuracy.
- * Memory (Max., Min., Last value).
- * High precision gasoline engine RPM measurement, measurement just clamp the Inductive pick up sensor (IP-09 or IP-07, included) to the high tension wire.

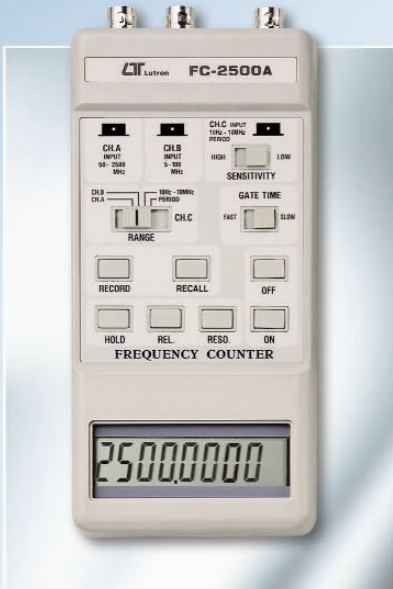


INDUCTIVE PICK UP SENSOR

Model : IP-09

- * Heavy duty type.
- * DM-9030, DM-9131 optional inductive pick up sensor is used to measure the RPM, only need to clip the high tension wire of no. 1 plug.

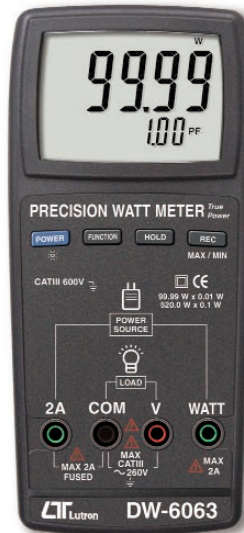
Frequency Counter Power & Watt Function Generator



2.5 GHz FREQUENCY COUNTER

Model : FC-2500A

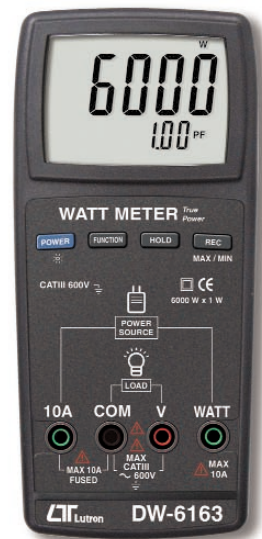
- * 3 ranges, 2500 MHz, 100 MHz, 10 MHz.
- * Frequency, Period, Hold, Relative, Max., Min., Average, 8 digits LCD.
- * High sensitivity for VHF & UHF frequency.
- * Size : 173 x 80 x 35 mm, Portable type.



**99.99 x 0.01 W, 520.0 x 0.1 W,
PF, ACV, ACA, Single phase
Precision Watt Meter**

Model : DW-6063

- * 0.01 W resolution, precision Watt meter is special for low power measurement.
- * Designed for the high resolution low power measurement.
- * Watt, Power factor, ACV, ACA.
- * True power (watt) measurement.
- * True rms measurement for ACV, ACA.
- * Auto range for Watt measurement :
Range 1 : 0.00 to 99.99 W x 0.01 W.
Range 2 : 100.0 to 520.0 W x 0.1 W.
- * Power factor : 0.01 to 1.00 x 0.01 PF.
- * ACV : 90.0 to 260.0 V x 0.1 V.
- * ACA : 0 to 2.000 A x 0.001 A.
- * ACV input impedance : 10 Mega OHM.
- * Data Hold, Record (Max., Min.).
- * RS232/USB Computer interface.
- * Optional data acquisition software, SW-U801-WIN.
- * Optional Excel data acquisition software, SW-E802.
- * Optional USB cable, USB-01.



**6000 W x 1 W, PF, ACV, ACA,
Single phase
WATT METER**

Model : DW-6163

- * True power measurement.
- * True rms measurement for ACV, ACA.
- * Watt : 0 to 6000 W x 1 W
- * Power factor : 0.01 to 1.00 x 0.01 PF.
- * ACV : 0 to 600 V X 0.1 V.
- * ACA : 0 to 10.00 A x 0.01 A.
- * ACV input impedance : 10 Mega OHM.
- * Data Hold, Record (Max., Min.).
- * RS232/USB Computer interface.
- * Optional data acquisition software & USB cable.

2.7 GHz FREQUENCY COUNTER, Bench type

Model : FC-2700

- * 3 ranges, 2700 MHz, 100 MHz, 10 MHz.
- * Frequency, Period, Hold, Relative.
- * RS232/USB computer interface .
- * TCXO O.S.C., Max., Min., Average, LCD.
- * Size : 280 x 210 x 90 mm. Battery power.



FREQUENCY COUNTER Optional Accessory

- AT-20** : Antenna with BNC connector for FC-2500A only.
- PB-21** : Cable w/ BNC connector & alligators.
- BB-22** : Cable w/double BNC connector.
- NN-23** : Direct probe with double N coaxial connector.
- NB-24** : BNC to N coaxial connector adapter.



FUNCTION GENERATOR

Model : FG-2003

- * 3 MHz function generator with 60 MHz auto range frequency counter.
- * Function generator : 0.5Hz to 3MHz, 6 Range .
- * Sins, Square, Triangle, Ramp, + Pulse, - Pulse.
- * Frequency counter range : 0.2Hz to 60MHz.
- * 5 digital 0.36" Red LED display.
- * Power Source :
AC 115V/230V,50/60Hz.



DCA/ACA CURRENT ADAPTER

Model : CA-203

- * Range : DCA, ACA, 200 A, 2000 A
- * DCA Output : 1 DCmV/1 DCA.
- * ACA Output : 1 ACmV/1 ACA.
- * Size : 210 x 64 x 33 mm



DCA/ACA CURRENT ADAPTER

Model : CA-502

- * Range : DCA, ACA, 200 A, 1000 A
- * DCA Output : 1 DCmV/1 DCA.
- * ACA Output : 1 ACmV/1 ACA.
- * Size : 185 x 78 x 30 mm



Mini ACA CURRENT ADAPTER

Model : CA-201

- * 2 ranges : 20 A, 200 A
- * Output : 1 ACmV per 1 ACA (200 A) .
10 ACmV per 1 ACA (20 A) .
- * Size : 180 x 47 x 35 mm.

DCA/ACA CURRENT ADAPTER

Model : CA-501 (200A, 400A)

- * Output : 1 ACmV/1 ACA, 1 DCmV/1 DCA.
- * CA-501 : 200 x 80 x 30 mm.
- * CA-202 : 185 x 78 x 30 mm.



50A/50mV SHUNT

Model : ST-50

- * Resistance shunt match DMM DC 200 mV range to measure current up to DC/AC 50A precisely.
- * Output - 1 ACmV/1 ACA, 1 DCmV/1 DCA.
- * Size : 135 x 30 x 30 mm.



PX-01



PX-02



PI-06

PROXIMITY SENSOR

Model : PX-01

- * DT-2240D, PDT-2250, TR-RPM1A4 sensor or position detect.
- * Detectable Object : Metals object.
- * Detecting distance : 4 mm.
- * Power : 12-24 DCV, Out-12 DCV 100 mA.

PROXIMITY SENSOR, mini & round type

Model : PX-02

- * Mini type proximity sensor for DT-2240D, PDT-2250.
- * Dia. 6.4 mm x 42 mm (length).
- * PNP, normal open. Sn. : 1.5 mm.
- * Power : 10 to 55 VDC. Output : 150 mA.

PHOTO SENSOR (Photo Interrupter)

Model : PI-06

- * Photo interrupter or the photo sensor for DT-2240D, PDT-2250, TR-RPM1A4.
- * Power supply : DC 12V to 30V.
- * 3 wires : Power, Signal and Ground.



HOLSTER

Model : HS-03

- * High quality rubber protective holster.
- * Available for : DM-9960, DM-9961, LCR-9183, LCR-9184, DW-6063, DW-6163 .



HOLSTER

Model : HS-02

- * High quality rubber protective holster.
- * Available for : EMF-822A, PH-201, CD-4302, TM-914C/F, WA-300, ORP-203 LX-100, LX-101A, LX-103.

Model : HS-01

- * High quality rubber protective holster. Refer to page 32.

Adapter SERIES Carrying case



PRESSURE ADAPTER

Model : PS-403

- * 1 mV per kPa, psi, cm-Hg, in-Hg.
- * Pressure : 0.5 to 500 psi.
- * Vacuum : 0 to 29.99 in-Hg
- * Port Connector : 1/4" NPT or 1/4" PS, including one adapter connector that convert the 1/4" NPT to 1/4" PS.
- * Sensor material : Ceramic.
- * Weight : 285 g.
- * Meter Size : 100 x 50 x 25 mm.
- * Pressure Sensor Size : 70 mm x 30 mm Dia.
- * Cable length : Approx. 1 meter.
- * Applications : Measure pneumatic pressures, measure automobile engine vacuum pressures, pressure for super heat measurements, hydraulic servo controls, refrigeration, air conditioning, food processing.



SOFT CARRYING CASE

Model : CA-03, CA-06, CA-05A, CA-52A

- CA-03 : Soft carrying case (190 x 90 x 55 mm)
- CA-04 : Soft carrying case (140 x 77 x 40 mm)
- CA-05A : Soft carrying case with sash (260 x 110 x 55 mm)
- CA-52A : Soft carrying case with sash (200 x 80 x 50 mm)



ANEMOMETER ADAPTER

Model : AM-402

- * Measurements : m/s, km/h, ft/min, knots.
- * Output : 1 mV per 1 m/s, per 1 km/h, per 100 ft/min, per 1 knots.
- * Size : 100x50x25 mm, Sensor-72 mm Dia.



SOUND ADAPTER

Model : SL-406

- * Frequency and time weighting meet IEC 61672 class 2.
- * A frequency weighting.
- * Range : 3 ranges, 30 to 130 dB.
- * Output : 10 mV per 1 dB.
- * External Calibration adj. VR.



EMF ADAPTER

Model : EMF-824

- * Electromagnetic field radiation adapter.
- * Ranges : 20 micro Tesla, 200 milli-Gauss.
- * 1 m Gauss (0.1 u Tesla) per 1 DC mV.
- * Size : 100x50x25 mm.-main instrument.



LIGHT ADAPTER

Model : LX-02

- * 3 ranges, 2,000/20,000/50,000 Lux
- * Output : 0.1 mV per 1 Lux (range A).
0.1 mV per 10 Lux (range B).
0.1 mV per 100 Lux (range C).
- * Size (main instrument) : 100x50x25 mm.



CA-03

CA-04

CA-06
CA-08



HARD CARRYING CASE

- CA-06 : Hard Carrying case. (280 x 195 x 65 mm)
- CA-08 : Hard Carrying case. (370 x 310 x 115 mm)

HIGH VOLTAGE PROBE

Model : HV-40

- * DC : 0 to 40 KV, AC : 28 KV rms.
- * 1000 M input impedance, 1/1000 att.
- * DCV : $\pm 1\%$ (1 to 20 KV), $\pm 1.5\%$ (>20kV).
- * ACV : $\pm 5\%$ (>1 KV, 50/60Hz).
- * Size : 340 x 30 x 30 mm.





INSULATION TESTER

Model : DI-6300

- * 200 M ohm(100V), 200 M ohm(250V), 200 M ohm(500V), 1000 M ohm(1000V), ACV, 200 ohms, continuity beeper.
- * Short circuit, 2.8 mA high driving current.
- * Size : 160 x 120 x 85 mm.

Model : DI-6300A

- * Same as DI-6300, but with 2000 M ohm (1000V).
- * Test lead TL-88 and alligator clips AL-05 are included.



INSULATION TESTER

Model : DI-6200

- * Mega ohm : 200M /500V, 1000M /1000V, Ohms - 200 ohm.
- * Battery power (UM3 x 8), 18 mm LCD.
- * Size : 170 x 127 x 78 mm.



INSULATION TESTER, + DMM

Model : DI-6400

- * Auto-range and multi-function.
- * Insulation measurement ranges:
 1. 4/40/400/4000 M ohm, auto range (250 V, 500 V, 1000 V)
 2. 4/40/400 M ohm, auto range (100 V)
- * Built-in the ACV & DCV & OHMS functions : DCV (600.0 V), ACV (600.0 V), OHM (400.0 ohm, 4,000 ohm, auto range).
- * CAT III 1000V.
- * Automatic zero adjust & automatic circuit discharge.
- * Lock & Test functions, safety and easy operation.
- * Precision resistance measurement with auto-range, useful for measuring low resistance value such as motor windings, relay coils etc.
- * A continuity beeper is equipped in OHM range.
- * Jumbo LCD display allows clear read-out.
- * LSI-circuit provides high reliability and durability.
- * Built-in over-input and low battery indications.
- * Battery operating is easy to carry for user.
- * Overload protection for each range.
- * Durable & portable housing case with the front rubber protection cover.
- * Heavy duty test leads with the alligators.
- * RS-232/USB computer interface.
- * Powered by UN3/AA DC 1.5 V X 8 batteries.

RT-616



RT-606



RT-608

3 PHASE & MOTOR ROTATION TESTER

Model : RT-608

- * 2 in 1, 3 phase rotation tester & combine with motor rotation tester.
- * Power supply : DC 9V.
- * Structure : Electronic (not mechanical).

RCCB CHECKER

Model : RCB-110V, 100~120 ACV, 50/60 Hz.

Model : RCB-220V, 200~240 ACV, 50/60 Hz.

- * Checking the power socket pin assignment.
- * Residual current circuit breaker test.
- * Rated tripping current setting 10 mA, 30 mA, 100 mA, 300 mA and 500 mA.



LINE FREQUENCY MONITOR

Model : LF-423

- * 0.5 to 500 Hz (x 0.01 Hz, < 100 Hz)
- * Input voltage : 5 to 250 ACV.
- * Check frequency to DC to AC converter, mobile & portable generator, power line.

**LCD display
3 PHASE ROTATION TESTER**

Model : RT-616

- * Large LCD display with backlight, easy to read under the strong light or the dark environment.
- * Electronic (not mechanical) rotation test, high reliability.
- * 3 phase rotation detector.
- * Input : 100 - 660 V AC, 45 to 70 Hz.
- * Custom one-chip of microprocessor circuit.
- * 3 heavy duty alligator clips are included.
- * Power supply : DC 9V 006P battery.

MILLIOHM METER

Model : MO-2002 (AC 110V)

Model : MO-2002 (AC 220V/AC 230V)

- * 20 m Ω/200 m Ω/2 Ω/20 Ω/200 Ω/2 K Ω /20 K Ω
- * HI / LO warning setup.
- * Large red LED display, 20.4 mm digit height.
- * 4 terminal inputs, high accuracy.
- * 4 wires with 2 Kelvin clips, KV-05 is included.
- * Bench type, professional.
- * Power : AC 110 V or AC 220 V/AC230 V.

HIGH PRECISION MILLIOHM METER

Model : MO-2013

- * Professional bench type milliohm meter.
- * 20 m /200 m /2 /20 /200 /2 K /20 K ohm.
- * 20,000 counts, Jumbo LCD with back light.
- * Hi / Lo warning, 4 wires terminals, Kelvin clips is included, 0.001 milliohm resolution.
- * Judgement output : Low/Good/High port, used for the automatic machine to select the components (good or no good).
- * Power : AC 110V or AC 220 V/AC230 V.

**Milliohm, RCB
3 Phase, Motor**

3 PHASE ROTATION TESTER

Model : RT-606

- * 3 phase rotation detector.
- * Input : 100 - 660 V AC, 45 to 70 Hz.
- * Power supply : None.
- * Structure : Electronic



MILLIOHM METER

Model : MO-2001 (AC 110V)

Model : MO-2001 (AC 220V/AC 230V)

- * 200 m Ω/2000 m Ω/20 Ω/200 Ω/2000 Ω.
- * 4 terminal inputs, high accuracy.
- * Size : 160 x 120 x 85 mm.
- * 4 wire with 2 kelvin clips, KV-05 is included.
- * Optional soft carrying case, CA-3K.
- * Power : AC 110V or AC 220 V/AC230 V.



EARTH RESISTANCE TESTER

Model : ET-3000

- * Earth Resistance : 19.99/199.9/1999 ohm.
- * Earth voltage : 0 - 199.9 V.
- * Power supply : 1.5 V UM3 (AA) x 6 PCs.
- * Soft carrying case, CA-3K is included.
- * Size : 160 x 120 x 85 mm.



V & A Cal.



VOLTAGE/CURRENT CALIBRATOR

Model : CC-421

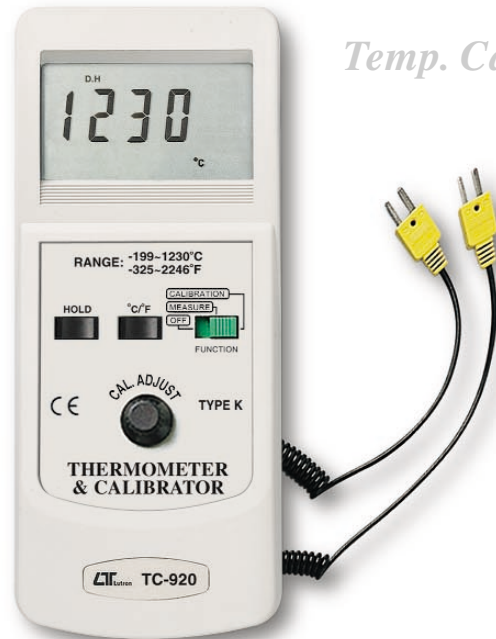
- * Current source : 0 to 24 mA, 2 ranges.
- * Current measurement : 0 to 24 mA, 2 ranges.
- * Power (12 V) and current measurement of two wire loop : 0 to 24 mA, 2 ranges.
- * DC mV source : -199.9mV to +199.9mV.
- * Size : 185 x 78 x 38 mm.

CURRENT CALIBRATOR

Model : CC-422

- * 0 to 24 mA precision current source.
- * Range : 0 to 19.99 mA x 0.01 mA.
0 to 24.0 mA x 0.1 mA.

Temp. Cal.



THERMOMETER CALIBRATOR

Model : TC-920

- * Type k thermocouple calibrator.
- * Type k thermocouple thermometer.
- * -199 °C to 1230 °C, -325°F to 2246°F.
- * Resolution : 0.1 °C (<1000 °C).
- * °C /°F, Data hold.
- * Size : 185 x 78 x 38 mm.



CABLE TESTER/CABLE IDENTIFIER

Model : CB-933

- * Transmitter & receiver are Included.
- * To identify & trace up to 16 cables.
It can also be connected to heat and water supplying installation system.
- * Digital display on the receiver indicates the relative cable.



4- 20 mA SIMULATOR

Model : CC-MA

- * Simulator output ranges of 4 mA, 12 mA & 20 mA from transmitter.
- * Ideal for calibration standard & used as a current source.



PH CALIBRATION CHECKER

Model : CC-PH

- * Simulates values for pH 4.00, pH 7.00& pH 10.00, professional & high accuracy.
- * Select high ohm for testing the impedance of your device, with Cal. cable.



PHOTO/CONTACT TACHOMETER

Model : DT-2236

- * Photo Tach. : 5 to 100,000 RPM
- * Contact Tach. : 0.5 to 19,999 RPM.
- Surface speed : m/min, ft/min.
- * Size : 215 x 65 x 38 mm.
- * Patented.

PHOTO/CONTACT TACHOMETER, pocket type

Model : DT-2230

- * Mini pocket size, easy carryout.
- * Photo tach. : 5 to 100,000 RPM
- Contact tach. : 0.5 to 19,999 RPM.
- Surface speed : m/min, ft/min.
- * Laser beam for Photo tachometer, long measuring distance.
- * LCD display, RS-232/USB interface.
- * Patented.
- * DC 1.5V battery (UM-4, AAA) x 4.



PHOTO/CONTACT TACHOMETER

Model : DT-2268

- * Photo tach. : 5 to 100,000 RPM
- Contact tach. : 0.5 to 19,999 RPM.
- Surface speed : m/min, ft/min.
- * Large LCD display, 20 mm digit height.
- * Laser light beam for Photo tachometer.
- * Patented.



LASER PHOTO TACHOMETER

Model : DT-2234BL

- * Long detecting distance for photo Tach. up to 2 meters.
- * Photo Tach. : 10 to 99,999 RPM
- * Accuracy : $\pm (0.05 \% + 1 d)$.
- * Size : 190 x 73 x 37 mm.



LASER PHOTO/CONTACT TACHOMETER

Model : DT-1236L

- * Patented, the best tachometer in the world.
- * Long detecting distance for photo Tach. up to 2 meters.
- * Photo & contact tachometers in one meter.
- * Fast sampling time for low contact RPM measurement, automatic reverse display.
- * Photo Tach. : 10 to 99,999 RPM
- Contact Tach. : 0.5 to 19,999 RPM.
- Surface speed : m/min, ft/min.
- * Size : 215 x 67 x 38 mm, patented.



PHOTO/CONTACT TACHOMETER

Model : DT-2238

- * Photo Tach. : 5 to 100,000 RPM
- * Contact Tach. : 0.5 to 19,999 RPM.
- Surface speed : m/min, ft/min.
- * Size : 195 x 61 x 38.5 mm.
- * Patented.

Tachometer SERIES



VIBRATION/TACHOMETER, 3 in 1
Model : VT-8204

- * Separate professional vibration sensor.
- * Vibration meter :
Acceleration : 200 m/s², RMS, PEAK, Max. Hold, g, ft/s².
Velocity : 200 mm/s, RMS, PEAK, Max. Hold, cm/s, inch/s .
Displacement (p-p) : 2 mm, Max. Hold, cm, inch .
- * Tachometer (photo) : 10 to 100,000 RPM.
Tachometer (contact) : 5 to 19,999. RPM
Tach. (surface speed) : m/min., ft/min. inch/min.
- * Laser photo tachometer.
- * 1000 Data logger point.
- * Data hold, record (Max., Min.)
- * Optional IR probe, IR-962.
- * RS-232/USB computer interface.
- * DC 1.5V (UM-3, AA) x 4 PCs.
- * Patented.



PHOTO TACHOMETER
Model : DT-2234B
* 5 to 100,000 RPM



CONTACT TACHOMETER
Model : DT-2235B
* 0.5 to 19,999 RPM.
* m/min, ft/min, inch/min.



PHOTO TACHOMETER
Model : DT-2244
* 5 to 100,000 RPM



CONTACT TACHOMETER
Model : DT-2245
* 0.5 to 19,999 RPM.
* m/min, ft/min, inch/min.



TACHOMETER/STROBOSCOPE
Model : DT-2259
* Tachometer combines Stroboscope. 2 in 1.
* Photo Tach. : 5 to 99,999 RPM.
* Stroboscope : 100 to 100,000 FPM/RPM.
* 4 x 1.5 V, AA(UM-3) battery power.
* Size : 215 x 65 x 38 mm.



TACH/MULTIMETER, hobby airplane
Model : DT-602
* Hobby Airplane tachometer & DMM.
* Tach. (2,3,4 propeller), DCV, ohms.
* Display : 13 mm LCD, 3 1/2 digits.
* Size: 185 x 70 x 30 mm.

Digital Synthesis

digital synthesis, high intensity light STROBOSCOPE

Model : DT-2349

- * New generation Stroboscope.
- * Digital synthesis circuit, high stability and easy adjustment.
- * Range : 60 to 32,000 RPM.
- * Adjustment resolution : 0.1 RPM/1 RPM.
- * High intensity light.
- * Setting button : digital rotate button, X 2 button, 2 button, + button, - button, easy to adjust the desired RPM.
- * ACV Power supply : ACV (100V to 240V) to DC 9V (3A) adapter, power adapter is included.
- * DCV Power supply : Built-in battery compartment, power can use the DC 1.2 V Ni-MH recharge battery (UM-1, D size) x 4 PCs which are not included.



Digital Synthesis



digital synthesis, high intensity light STROBOSCOPE

Model : DT-2249A (AC 110V)

Model : DT-2249A (AC 220V)

Model : DT-2249A (AC 230 V)

- * New generation Stroboscope.
- * Digital synthesis circuit, high stability and high adjustment resolution.
- * Range : 60 to 30,000 RPM.
- * Adjustment resolution : 0.1 RPM (1,000 RPM), 1 RPM (1,000 RPM)
- * High intensity light.
- * Setting button : digital rotate button, X 2 button, 2 button, + button, - button, easy to adjust the desired RPM.
- * Power supply (ACV only) : DT-2249A (AC 110V) : AC 110V, 50/60 Hz. DT-2249A (AC 220V) : AC 220V, 50/60 Hz. DT-2249A (AC 230V) : AC 230V, 50/60 Hz.

Stroboscope

SERIES



DIGITAL STROBOSCOPE, rotary knob adj.

Model : DT-2239A (AC 110V)

Model : DT-2239A (AC 220V or 230V)

* Range : 100 - 10,000 RPM.

* Accuracy : $\pm (0.05 \% + 1 d)$.

* Xenon flash tube, Display : 10 mm red LED.

* Size : 210 x 120 x 120 mm.

XENON, AC power or Battery power

DIGITAL STROBOSCOPE

Model : DT-2339



Push Button

RS232 + push button adj.

DIGITAL STROBOSCOPE,

Model : DT-2269 (AC 110V)

Model : DT-2269 (AC 220V or 230V)

* Range: 5 to 12,500 RPM.

* RPM setting by push button.

* External trigger signal input for simultaneous testing and measurement.

* Xenon flash tube, Display : 14 mm red LED.

* RS-232/USB computer interface.

* Optional, RS232 interface cable UPCB-02, USB interface cable USB-01.

* Optional software, SW-U801-WIN.



**battery power, LED array
STROBOSCOPE**

Model : DT-2199

- * Stroboscope uses high intensity LED array.
- * LCD display with backlight.
- * Stroboscope range : 100 to 99,999 RPM.
- * Power supply : Batteries, 1.5 V (UM-1, D) x 4 PCs.
- * AC/DC adapter is optional.



**AC power or Battery power
STROBOSCOPE, XENON**

Model : DT-2339

- * Stroboscope uses high intensity XENON tube.
- * LCD display with backlight.
- * Stroboscope range : 100 to 15,000 RPM.
- * External trigger for stroboscope.
- * DCV power supply via external AC/DC adapter, 90-260 ACV/DC adapter is the standard accessory.
- * Built-in battery compartment, power can use the optional DC 1.2 V Ni-MH recharge battery (UM-1, D size) D size) x 4 PCs, but the recharge batteries and the battery charger are not included, it should be prepared by user themself.



**LED array, battery power
+ photo Tachometer, 2 in 1
STROBOSCOPE**

Model : DT-2299

- * Stroboscope uses high intensity LED array.
- * LCD display with backlight.
- * Stroboscope range : 100 to 99,999 RPM.
- * External trigger for stroboscope.
- * Photo tach. range : 10 to 99,999 RPM.
- * Photo tachometer uses the laser light beam.
- * Optional contact tach. adapter, TA-35.
- * Power supply : Batteries, 1.5 V (UM-1, D) x 4 PCs.
- * AC/DC adapter is optional.



**AC power or Battery power, + photo Tachometer, 2 in 1
STROBOSCOPE, XENON**

Model : DT-2289

- * Stroboscope uses high intensity XENON tube.
- * LCD display with backlight.
- * Stroboscope range : 100 to 15,000 RPM.
- * External trigger for stroboscope.
- * Photo tach. range : 10 to 99,999 RPM.
- * Photo tachometer uses the laser light beam.
- * Optional contact tach. adapter, TA-35.
- * DCV power supply via external AC/DC adapter, 90-260 ACV/DC adapter is the standard accessory.
- * Built-in battery compartment, power can use the optional DC 1.2 V Ni-MH recharge battery (UM-1, D size) D size) x 4 PCs, but the recharge batteries and the battery charger are not included, it should be prepared by user themself.



**SD Card real time data logger
12 channels TEMPERATURE RECORDER
Model : BTM-4208SD**

- * 12 channels Temperature recorder, use SD card to save the data along with time information, paperless.
- * Real time data logger, save the measuring data along the time information into the SD memory card and can be downloaded to the Excel, extra software is no need.
- * Channels no. : 12 channels (CH1 to CH12)
- * Type J/K/T/E/R/S thermocouple.
- * Auto datalogger or manual datalogger.
- * Logger sampling time range : 1 to 3600 sec..
- * Memory card : 1 GB to 16 GB.
- * RS232/USB computer interface.

**PT 100 ohm TEMPERATURE PROBE
Model : TP-100**

- * The exclusive Pt 100 ohm precision Temp. probe for TM-907A, TM-917, TM-9017SD, TM-917HA, TM-2000, TM-936.
- * Sensor type : Pt 100 ohm.
- * Range : -50 to 400 °C.



TYPE K TEMPERATURE PROBE

- TP-01** : -40 to 250 °C, Naked-bead.
- TP-02A** : -50 to 900 °C, 3.2 mm Dia. x 12 cm.
- TP-03** : -50 to 1200 °C, 8 mm Dia. x 13.6 cm.
- TP-04** : -50 to 400 °C, Surface probe.

Temp. probe (optional)

Probe 1
Probe 2

to Probe 12



**THERMOMETER, 2 in 1
Model : TM-936**

- * Type K/J/E/T :
-100 to 1300 °C, max. 0.1 °C/0.1 °F.
- * Type R : 0 to 1700 °C, 1 °C/ 1 °F.
- * PT 100 ohm :
-200 to 800 °C, max. 0.1 °C/0.1 °F.
- * RS-232/USB, Hold, Record (Max., Min.).



**DUAL THERMOMETER, RS-232
Model : TM-906A**

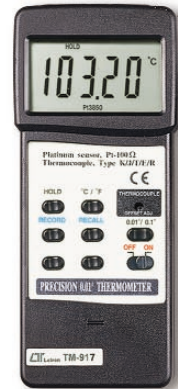
- * μ -P circuit, LCD with display unit.
- * Range : -50 to 1230 °C.
- * Max., Min., Memory recall button.
- * °C/°F, 0.1°/1°, T1, T2, T1-T2.
- * Size : 180 x 72 x 32 mm. RS-232/USB.



**2 channels, T1, T2, T1-T2
DUAL CHANNEL THERMOMETER
Model : TM-934S**

- * Type K : -199.9 to 1370.0 °C.
- * Display functions : T1 & T2 , T1-T2 , T1 only.
- * Data hold , Record (max., min.).
- * Microprocessor circuit.
- * Size : 131 x 70 x 25 mm.
- * DC 9V battery (006 P).
- * Optional full line type K Temp. probes : TP-01, TP-02A, TP-03, TP-04, TP-05.

**Thermometer
SERIES**



**PRECISION 0.01 degree THERMOMETER
Model : TM-917**

- * Pt 100 ohm: -199.99 °C to 850 °C, + Type J/K/R/E/T
- * 0.01/0.1 degree, Memory, °C/°F, RS-232/USB.

**PRECISION 0.01 degree THERMOMETER
Model : TM-907A**

- * Pt 100 ohm : -199.99 °C to 850 °C, high accuracy.

**PT 100 ohm TEMP. PROBE
Model : TP-100**



**DUAL THERMOMETER
Model : TM-916**

- * μ -P circuit, LCD with display unit.
- * Range : -50 to 1230 °C.
- * Max., Min., Memory recall button.
- * °C/°F, 0.1°/1°, T1, T2, T1-T2.
- * Size : 180 x 72 x 32 mm.



**DUAL CHANNEL THERMOMETER
Model : TM-914C, TM-914F**

- * -40 to 1200 °C (TM-914C)
- * -40 to 2000 °F (TM-914F)
- * Type K, dual channel, pocket size.
- * Size : 131 x 70 x 25 mm.



**SD Card real time data recorder
4 channels THERMOMETER**

Model : TM-947SD

- * Real time data logger, save the data into the SD memory card and can be downloaded to the Excel.
- * Type K/J/R/S/E/T, Pt 100 ohm, 4 display values.
- * 4 channels (T1, T2, T3, T4), T1-T2, °C/°F.
- * Display 4 channels Temp. at the same time.
- * Type K : -100 to 1300 °C, Type J : -100 to 1150 °C.
- * Pt 100 ohm : -199 to 850 °C.
- * °C/°F, 0.1 degree/1 degree.
- * Data hold, Record (max., min.).
- * RS232/USB computer interface.
- * Optional type K Temp. probe : TP-01, TP-02A, TP-03, TP-04, TP-05.
- * Optional Pt-100 ohm Temp. probe, TP-101.
- * Patented.

Optional
Temp. probe



4 channels THERMOMETER

Model : TM-946

- * Type K/J, Pt 100 ohm, shows 4 display values.
- * 4 channels (T1, T2, T3, T4), T1-T2, °C/°F.
- * Display 4 channels Temp. at the same time.
- * Type K : -100 to 1300 °C, Type J : -100 to 1200 °C.
- * Pt 100 ohm : -199 to 850 °C.
- * °C/°F, 0.1 degree/1 degree.
- * Data hold, Record (max., min.).
- * RS-232/USB computer interface, data logger.
- * Optional Type K Temp. probe, refer page 47.
- * Optional Pt-100 ohm Temp. probe, TP-101.
- * DC 1.5V (UM-4, AAA) battery x 6 or DC 9V adapter in.

Real time data logger

Multi-function THERMOMETER

Model : YK-2005TM

- * High capacity, 16,000 data logger point.
- * Real time data logger (record year, month, date, hour, minute, second).
- * Multi-function : Type K, Type J, Pt100 ohm, Infrared Thermometer.
- * Type K : -100 to 1300 °C, Type J : -100 to 1100 °C, Pt 100 ohm -200 to 850 °C.
- * Optional probes :
Type K probe, Type J probe, Pt 100 ohm (PT-100P) probe, IR probe.
- * Max., Min., Data hold, zero adjust.
- * RS-232/USB computer interface.
- * Jumbo LCD display.
- * DC 1.5V (UM3, AA) x 4 PCs or DC 9V adapter in.
- * Size : 203 x 76 x 38 mm.



THERMOMETER, all in 1

Model : PTM-816

- * Cooperate with the type K Temp. probe.
- * Range : -50 to 230 °C x 0.1 °C.
- * Units : °C, °F. internal adjustment.
- * Meter with the probe, all in 1, easy operation.
- * Hold function to freeze display value.
- * Built-in reverse display button.
- * IP-67 Water resistance, heavy duty.
- * DC 1.5V battery (UM-4, AAA) x 4.

T1, T2, T1-T2, two displays

TWO CHANNEL THERMOMETER

Model : TM-925

- * T1, T2, T1-T2, Type K/J.
- * °C/°F, 0.1 degree/1 degree.
- * Type K : -100 to 1300 °C.
- * Type J : -100 to 1200 °C.
- * Data hold, Record (max., min.).
- * 1600 Data logger point.
- * RS-232/USB interface, data logger.
- * DC 9V battery (006P) or DC 9V adapter in.

**Separate probe, type K
THERMOMETER**

Model : PTM-806

- * Cooperate with the type K Temp. probe.
- * Range : -100 to 1300 °C x 0.1 °C.
- * Units : °C, °F. internal adjustment.
- * Separate probe, easy for remoting measurement.
- * Temp. probe, TP-01 is included.
- * Optional temp. probes : TP-02A, TP-03, TP-04.
- * Hold function to freeze display value.
- * Built-in reverse display button.
- * DC 1.5V battery (UM-4, AAA) x 4.



IR Thermometer SERIES

3 in 1



+ type K THERMOMETER, 2 in 1 INFRARED THERMOMETER Model : TM-909AL

- * Non-contact temperature measurement.
- * With red Laser target light guide.
- * °C/°F, Max., Min., Rel., Data hold.
- * IR : -20 °C to 400 °C , 0.1 ° resolution.
- * Type K thermometer : -50 °C to 1230 °C.
- * Gun type, heavy duty, emissivity value adjust.



INFRARED THERMOMETER Model : TM-919AL

- * Non-contact temperature measurement.
- * With red Laser target light guide.
- * °C/°F, Max., Min., Rel., Data hold.
- * Range : -20 °C to 400 °C , 0.1 ° resolution.
- * Gun type, heavy duty, emissivity value adjust.



THERMOMETER, 3 in 1 Model : TM-2000

- * The best thermometer in the world.
- * 3 in 1, Infrared thermometer + Pt 100 ohm + Type K/J/ R/ E/T, intelligent.
- * With laser target guide for IR measurement.
- * IR range : -20 to 400 °C.
- * Type K/J/R/E/T : -100 to 1700 °C maximum.
- * Pt 100 ohm : -20 to 800 °C, 0.1 °C/ 0.1 °F.
- * RS-232/USB, Data hold, Max., Min. Relative.
- * 0.1 degree resolution for PT 100 ohm & type K/J/T/E.
- * Size : 195 x 68 x 30 mm.



650°C + type K/J/R/E/T

High Temp. IR THERMOMETER + type K/J/R/E/T Model : TM-939

- * IR Range : -20 to 650 °C (-4 to 1202 °F), °C/ °F.
- * IR emissivity is adjustable from 0.20 to 1.00.
- * IR with Laser target guide, RS-232/USB.
- * Thermocouple inputs : type K/J/R/E/T.
- * Type K : -100 to 1300 °C, 0.1 °C/0.1 °F.
- * Size : 220 x 68 x 30 mm.



650°C

High Temp. IR THERMOMETER, wide range Model : TM-949

- * IR Range : -20 to 650 °C (-4 to 1202 °F), °C/ °F.
- * IR emissivity is adjustable from 0.20 to 1.00.
- * IR with Laser target guide.
- * RS-232/USB computer interface.
- * Size : 220 x 68 x 30 mm.

Precision, 0.1 degree resolution Safety red LED light guide 2 in 1, + type K thermometer FOREHEAD IR THERMOMETER Model : TM-966A

- * Non-contact temperature measurement, 34.0 °C to 43.0 °C (93.2 °F to 109.4 °F) precision for forehead non-contacted temperature measurement.
- * 0.1 degree resolution, high precision, exclusive design for the human forehead temperature measurement.
- * Useful instrument to find the abnormal (extra higher) human body temperature in the crowd quickly.
- * LCD display with backlight,
- * High repeatability with 0.5 °C.
- * With red LED light guide, safety.
- * Automatic data hold function to freeze the display reading. Page 46



IR Thermometer

SERIES



**economical type, LED target light
INFRARED THERMOMETER**

Model : TM-956

- * Range : -30 °C to 305 °C .
- * Mini pocket type.
- * 0.95 emissivity value.
- * High intensity LED target light, safety.
- * 0.5 degree display resolution.
- * °C, °F internal select with default.
- * Automatic display hold.
- * DC 9V battery (006P).



**Dual laser targeting + type K thermometer
1,000 °C INFRARED THERMOMETER**

Model : TM-969

- * 1,000 °C no contact infrared Temp. measurement.
- * 1400 °C type K thermometer.
- * Dual laser for better targeting.
- * Large LCD display with backlight.
- * D/S ratio value : 50/1.
- * Min., Max., Differential, Average, Lock mode.
- * Last measurement memory.
- * Hi/Lo Temperature Audio Alarm.
- * Adjustable emissivity value is from 0.1 to 1.00.
- * Power supply : DC 1.5V battery (UM 4/AAA) x 2 PCs .
- * Dimension : 203 x 197 x 47 mm



**LED target light, Emissivity adj.
INFRARED THERMOMETER**

Model : TM-959

- * Range : -30 °C to 305 °C .
- * Mini pocket type.
- * High intensity LED target light, safety.
- * Emissivity adjustment, 0.20 to 1.00.
- * 0.5 degree display resolution.
- * °C, °F internal select with default.
- * Automatic display hold.
- * DC 9V battery (006P).



**Laser target light, Emissivity adj.
INFRARED THERMOMETER**

Model : TM-958

- * Range : -30 °C to 305 °C .
- * Mini pocket type.
- * Laser target light.
- * Emissivity adjustment, 0.20 to 1.00.
- * 0.5 degree display resolution.
- * °C, °F internal select with default.
- * Automatic display hold.
- * DC 9V battery (006P).



LIGHT METER

Model : LX-1102

- * Large LCD with bar graph, Fc & Lux select.
- * 40.00/400.0/4,000/40,000/400,000 Lux.
- * Sensor meets C.I.E. spectrum, 2 filters.
- * Zero adjust, bar graph LCD.
- * RS-232/USB, Hold, Record.



LIGHT METER, 4 light type

Model : LX-1108

- * Large LCD display with bar graph display.
- * 40.00/400.0/4,000/40,000/400,000 Lux.
- * Lux, Foot-candle unit selection.
- * Sensor meets C.I.E. spectrum, 2 filters.
- * RS-232/USB, Hold, Record, Zero adjust.
- * 4 light type selection, bar graph LCD.



LIGHT METER

Model : YK-10LX

- * Large LCD display, 21.5 mm digit height.
- * 2,000 Lux, 20,000 Lux.
- * Sensor meets C.I.E. photopic spectrum.
- * 2 filters, professional.
- * Hold, External zero adjust.



LIGHT METER, RS232

Model : LX-105

- * μ -P circuit, 2,000/20,000/50,000 Lux.
- * Max., Min., Memory recall button.
- * Lux, Ft-candle, % values, wide range.
- * 4 light type select by push button.
- * RS-232/USB computer interface.
- * Size : 180 x 72 x 32 mm.



LIGHT METER

Model : LX-107

- * μ -P circuit, 2,000/20,000/100,000 Lux.
- * Max., Min., Memory recall button.
- * Lux, Ft-candle, wide range.
- * 4 light type select by push button.
- * Size : 180 x 72 x 32 mm.



LIGHT METER, pocket

Model : LX-100, 2,000/20,000 Lux.

Model : LX-100F, 200.0/2,000 Foot-candle.

Model : LX-101A, 2,000/20,000/50,000 Lux.



Auto range,

LIGHT METER

Model : LX-113S

- * 2,000/20,000/50,000 Lux, Auto range.
- * Lux & Ft-candle unit select.
- * Sensor with color correction, 2 filters.
- * Sensor spectrum meets C.I.E.
- * Zero key function.
- * Separate light probe, easy operation
- * Microprocessor circuit.
- * Size : 131 x 70 x 25 mm.
- * DC 9V battery (006 P).



LIGHT METER, analog output

Model : LX-102

- * 2,000/20,000/50,000 Lux, Foot-candle.
 - * 2 filters, spectrum meets C.I.E.
- Model : LX-108**
- * 200/2,000/20,000 Lux, Foot-candle.
 - * 2 filters, spectrum meets C.I.E.



LIGHT METER, pocket

Model : LX-101

- * 2,000/20,000/50,000 Lux, Zero adj.
- * 2 filters, spectrum meets C.I.E.

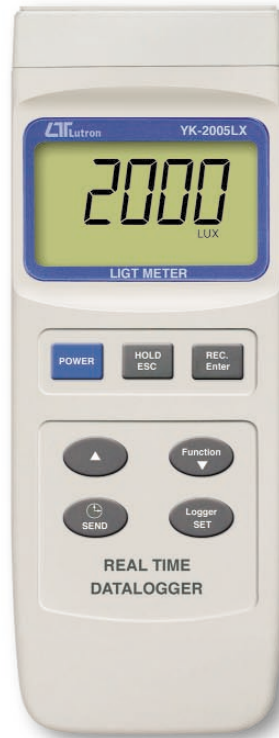




LIGHT METER

Model : LM-81LX

- * 2,000 Lux, 20,000 Lux, auto range.
- * 200 Ft-cd, 2,000 Ft-cd, auto range.
- * Lux/Ft-cd unit select, zero adjust.
- * Data hold, Record (Max., Min.).
- * Tiny bone shape with light weight and small size.



LIGHT METER, Real time data logger

Model : YK-2005LX

- * High capacity, 16,000 data logger point.
- * Real time data logger (record year, month, date, hour, minute, second).
- * Ranges : 200/2,000/20,000/100,000 Lux.
- * Units : Lux, Feet-candle.
- * 4 light type selection.
- * Sensor meets C.I.E. spectrum, 2 filters.
- * Max., Min., Data hold, zero adjust.
- * RS-232/USB computer interface.
- * Jumbo LCD display.
- * DC 1.5V (UM3, AA) x 4 PCs or DC 9V adapter in.
- * Size : 203 x 76 x 38 mm.



**4 light type, bar graph display, wide range
LIGHT METER**

Model : LX-1118

- * Large LCD display with bar graph.
- * 40.00/400.0/4,000/40,000/400,000 Lux.
- * Lux or Feet-candle unit selection.
- * 4 light type select.
- * Sensor meets C.I.E. spectrum, 2 filters.
- * Data hold, Record (max., min.).
- * RS-232/USB computer interface.
- * DC 1.5V battery (UM-4, AAA) x 6.

LIGHT METER

Model : PLX-111

- * 0 to 20,000 Lux, 0 to 1,860 Ft-cd.
- * Units : Lux, Ft-cd.
- * Auto range.
- * Pen type, all in one, easy carryout.
- * Hold function to freeze display value.
- * DC 1.5V battery (UM-4, AAA) x 4.





UVA LIGHT METER, RS-32

Model : UVA-365

- * UVA Ultra-Violet radiometer.
- * 3 ranges :
 - 199.9 $\mu\text{W}/\text{cm}^2 \times 0.1 \mu\text{W}/\text{cm}^2$.
 - 1.999 $\text{mW}/\text{cm}^2 \times 0.001 \text{mW}/\text{cm}^2$.
 - 19.99 $\text{mW}/\text{cm}^2 \times 0.01 \text{mW}/\text{cm}^2$.
- * Data Hold.
- * RS232/USB computer interface.
- * Max., Min., Memory recall button.
- * Size : 180 x 72 x 32 mm.



UVC LIGHT METER, RS232

Model : UVC-254

- * UVC Ultra-Violet radiometer.
- * 3 ranges :
 - 199.9 $\mu\text{W}/\text{cm}^2 \times 0.1 \mu\text{W}/\text{cm}^2$.
 - 1.999 $\text{mW}/\text{cm}^2 \times 0.001 \text{mW}/\text{cm}^2$.
 - 19.99 $\text{mW}/\text{cm}^2 \times 0.01 \text{mW}/\text{cm}^2$.
- * Data Hold.
- * RS232/USB computer interface.
- * Max., Min., Memory recall button.
- * Size : 180 x 72 x 32 mm.



UV LIGHT METER, pocket

Model : UV-340A

- * Spectrum : 290 nm -390 nm.
- * Applications : UVA & UVB measurements.
- * 2 ranges :
 - 1999 $\mu\text{W}/\text{cm}^2 \times 1 \mu\text{W}/\text{cm}^2$.
 - 19990 $\mu\text{W}/\text{cm}^2 \times 10 \mu\text{W}/\text{cm}^2$.
- * Pocket size.
- * Microprocessor circuit.
- * Separate probe, easy operation.



UV LIGHT METER

Model : YK-35UV

- * Spectrum : 290 nm -390 nm
- * Applications : UVA & UVB measurements.
- * 2 ranges :
 - 2 $\text{mW}/\text{cm}^2 \times 0.001 \text{mW}/\text{cm}^2$.
 - 20 $\text{mW}/\text{cm}^2 \times 0.01 \text{mW}/\text{cm}^2$.
- * Data hold.
- * RS232/USB computer interface.
- * Max., Min., memory recall button.
- * Separate probe, easy operation.

Anemometer Vane Type SERIES



ANEMOMETER, mini vane

Model : AM-4213

- * 13 mm Dia. heavy mini vane, telescope probe.
- * High Temp. air velocity measurement.
- * m/s, ft/min, km/h, knots, mile/h, Temp. (°C/°F).
- * 0.8 to 12.0 m/s., μ -P circuit. RS-232/USB.

ANEMOMETER, mini vane, CMM, CFM

Model : AM-4216

- * Function same as AM-4213 but with CMM (m³/min.), CFM (ft³/min.).



ANEMOMETER

Model : LM-81AM

- * Anemometer : 0.4 to 30.0 m/s.
- * m/s, km/h, MPH, knots, ft/min.
- * Data hold, Record (Max., Min.)
- * Tiny bone shape with light weight and small size.

Model : LM-81AT

- * Same as LM-81AM but with Temp. measurement.



ANEMOMETER

Model : AM-4203

- * μ -P circuit, 0.4 to 25.0 m/s.
- * Max., Min., Memory recall button.
- * m/s, ft/min, km/h, mile/h, knots, Temp. (°C/°F).
- * Size : 180 x 72 x 32 mm. RS-232/USB.



ANEMOMETER, air flow + air velocity

Model : AM-4206

- * CMM (m³/min.), CFM (ft³/min.)
- * m/s, ft/min, km/h, mile/h, knots, Temp. (°C/°F).
- * 0.4 to 25.0 m/s., μ -P circuit.
- * Max., Min., Memory recall button.
- * Size : 180 x 72 x 32 mm. RS-232/USB.



ANEMOMETER, metal vane + air flow

Model : AM-4206M

- * CMM (m³/min.), CFM (ft³/min.)
- * m/s, ft/min, km/h, knots, mph, Temp. (°C/°F).
- * Range : 0.4 to 35 m/s.
- * Metal vane, heavy duty anemometer probe.
- * RS-232/USB, Hold, Record (Max., Min.).



ANEMOMETER

Model : YK-80AP, refer page 2.

- * m/s, ft/min, km/h, knots, mile/h.
- * Temperature : °C/°F.
- * RS-232/USB, Hold, Record (Max., Min.).

Model : YK-80AM, metal vane, refer page 2.

Model : YK-80AS, mini vane, refer page 2.



ANEMOMETER

Model : AM-4203HA

- * μ -P circuit, 0.4 to 25.0 m/s.
- * m/s, ft/min, km/h, mile/h, knots, Temp. (°C/°F).
- * Max., Min., Memory recall button.
- * Size : 185 x 78 x 38 mm.



ANEMOMETER (w/ Temp.)

Model : AM-4202

- * 0.4 to 30.0 m/s, m/s, ft/min, km/h, knots, Temperature, Data hold, 18 mm LCD.
- * Low-friction ball-bearing vane.

ANEMOMETER (w/o Temp.)

Model : AM-4201

Anemometer Vane Type SERIES



Real time data logger + air flow ANEMOMETER

Model : YK-2005AM

- * High capacity, 16,000 data logger point.
- * Real time data logger (record year, month, date, hour, minute, second).
- * Air velocity, Air flow, Temp., type K Temp.
- * Metal vane, heavy duty.
- * 0.4 to 30.0 m/s. CMM, CFM.
- * Max., Min., Data hold.
- * RS-232/USB computer interface.
- * Jumbo LCD display.
- * DC 1.5V (UM3, AA) x 4 PCs or DC 9V adapter in.
- * Size : 203 x 76 x 38 mm.



ANEMOMETER

Model : MY-81AP

- * Range : 0.4 to 25.0 m/s.
- * m/s, km/h, ft/min., knots, mile/h, Temp.
- * Temp. : 0 to 50 °C, °C/°F.
- * Low-friction ball vane wheels is accurate in both high & low velocity.
- * LCD shows both air velocity and Temp. value.
- * Remote vane probe is separate, easy operation.
- * RS-232/USB computer interface.
- * Data hold, Record (Max., Min.).
- * DC 1.5V (UM-4, AAA) battery x 6.

VANE ANEMOMETER/BAROMETER/HUMIDITY/TEMP.

Model : ABH-4225

- * Air velocity : 0.4 to 30.0 m/s, ft/min., km/h, mile/h, knots.
- * Barometer : 10 to 1100 hPa, mmHg, inHg.
- * Humidity : 10% to 95% RH, Dew.
- * Temperature : 0 to 50 °C, °C/°F.
- * All in one, hand held type.
- * Vane probe, high reliability.
- * Hold, Record (max., min.).
- * DC 1.5V battery (UM-4, AAA) x 4.



VANE ANEMOMETER/HUMIDITY/TEMPERATURE

Model : AH-4223

- * Air velocity : 0.4 to 30.0 m/s, ft/min., km/h, mile/h, knots.
- * Humidity : 10% to 95% RH, Dew.
- * Temperature : 0 to 50 °C, °C/°F.
- * All in one, hand held type.
- * Vane probe for anemometer.
- * Hold, Record (max., min.).
- * DC 1.5V battery (UM-4, AAA) x 4.

+ Temperature

VAN ANEMOMETER

Model : AM-4222

- * Air velocity : 0.4 to 30.0 m/s
- * Temperature : 0 to 50 °C, °C/°F.
- * Units : m/s, km/h, knots, ft/min, mile/h.
- * Temp. : 0 to 50 °C, °C/°F.
- * All in one, compact and handheld type.
- * LCD display, Data hold.
- * DC 1.5V battery (UM-4, AAA) x 4.



Anemometer Cup Type SERIES



+ Temperature
CUP ANEMOMETER
Model : AM-4221

- * Outside air speed measurement.
- * 0.9 to 35.0 m/s, ft/min., km/h, mile/h, knots.
- * Temperature : 0 to 50 °C, °C/°F.
- * All in one, hand held type.
- * Cup type probe, high reliability.
- * LCD display, Record (max., min.).
- * IP-65 Water resistance, heavy duty.
- * DC 1.5V battery (UM-4, AAA) x 4.



CUP ANEMOMETER
Model : AM-4220

- * Outside air speed measurement.
- * 0.9 to 35.0 m/s, ft/min., km/h, mile/h, knots.
- * All in one, hand held type.
- * Cup type probe, high reliability.
- * LCD display, Record (max., min.).
- * IP-65 Water resistance, heavy duty.
- * DC 1.5V battery (UM-4, AAA) x 4.



CUP ANEMOMETER/BAROMETER/HUMIDITY/TEMP.
Model : ABH-4224

- * Air velocity : 0.9 to 35.0 m/s, ft/min., km/h, mile/h, knots.
- * Barometer : 10 to 1100 hPa, mmHg, inHg.
- * Humidity : 10% to 95% RH, Dew.
- * Temperature : 0 to 50 °C, °C/ °F.
- * All in one, hand held type.
- * Cup type probe, no wind direction.
- * Hold, Record (max., min.).
- * DC 1.5V battery (UM-4, AAA) x 4.

Anemometer Hot Wire SERIES



Real time data logger, + air flow, + type K/J HOT WIRE ANEMOMETER

Model : YK-2005AH

- * High capacity, 16,000 data logger point.
- * Real time data logger (record year, month, date, hour, minute, second).
- * Air velocity, Air flow, Temp., type K/J Temp..
- * Hot wire anemometer, high precision for low air velocity measurement.
- Telescope probe.
- * 0.2 to 20.0 m/s. CMM, CFM.
- * Max., Min., Data hold.
- * RS-232/USB computer interface.
- * Jumbo LCD display.
- * DC 1.5V (UM3, AA) x 4 PCs or DC 9V adapter in.
- * Size : 203 x 76 x 38 mm.



HOT WIRE ANEMOMETER, air flow

Model : YK-2004AH

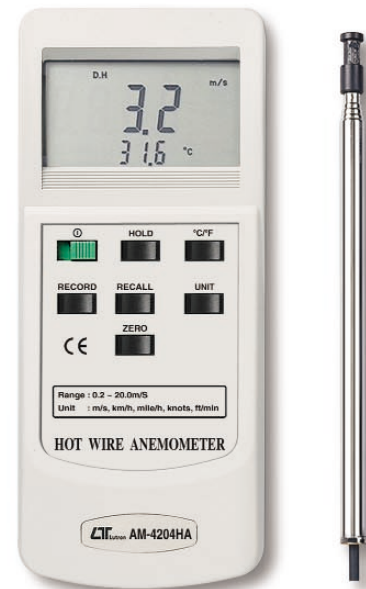
- * Air velocity, Air flow (CMM, CFM), Temperature.
- * Hot wire anemometer, high precision for low air velocity measurement.
- * Telescope and separate probe, easy operation.
- * 0.2 to 20.0 m/s. CMM, CFM.
- * Max., Min., Data hold.
- * RS-232/USB computer interface.
- * Jumbo LCD, unit with dot matrix display.
- * DC 1.5V (UM-3, AA) x 4 PCs or DC 9V adapter in.
- * Size : 203 x 76 x 38 mm.



HOT WIRE ANEMOMETER

Model : AM-4204

- * 0.2 - 20.0 m/s, high precision for low air velocity measurement.
- * m/s, ft/min, km/h, knots, mile/h, °C/°F.
- * Max., Min., Data hold.
- * RS-232/USB computer interface.
- * Size : 180 x 72 x 32 mm. Telescope probe.



HOT WIRE ANEMOMETER

Model : AM-4204HA

- * 0.2 - 20.0 m/s, high precision for low air velocity measurement.
- * m/s, ft/min, km/h, knots, mile/h, °C/°F.
- * Max., Min., Data hold.
- * Size : 185 x 78 x 38 mm. Telescope probe.

Humidity Dew Point



HUMIDITY/TEMP. METER, all in 1, RS232 Model : HT-306

- * Measurements : Humidity, Temp., Dew point
- * Humidity : 10 to 95 %RH, Temp. : 0 to 50 °C.
- * Resolution : 0.01 %RH, 0.01 degree.
- * Fast response time.
- * Data hold, Record (max., min.).
- * Meter is built-in probe, all in one, easy operation.
- * RS-232/USB computer interface.
- * DC 9V battery (006P) or DC 9V adapter in.



+ type K/J Temp. HUMIDITY/ANEMOMETER METER Model : AM-4205A

- * Anemometer : 0.4 to 25.0 m/s. m/s, ft/min., km/h, mile/h, knots, Temp.
- * Humidity meter %RH : 10 to 95 %RH. Humidity/Temp. : 0 to 50 °C, °C/°F.
- * Type K thermometer : -199.9 to 1300 °C, °C/°F.
- * Type J thermometer : -199.9 to 1100 °C, °C/°F.
- * Max., Min., data hold, RS-232/USB interface.



POCKET HUMIDITY METER, economical type Model : HT-305

- * Measurements : Humidity, Temp., Dew point
- * Pocket and compact housing case.
- * Fast response time.
- * Humidity : 10 to 95 %RH , Temp. : 0 to 50 °C.
- * Resolution : 0.1 %RH, 0.1 degree.
- * DC 9V battery (006P) .
- * Separate probe.
- * Size : 135 x 60 x 33 mm.



80 °C, wide temperature, RS232 POCKET HUMIDITY METER Model : HT-315

- * Measurements : Humidity, Temp., Dew point.
- * Pocket and compact housing case.
- * Fast response time.
- * Humidity : 10 to 95 %RH , Temp. : 0 to 80 °C.
- * Resolution : 0.01 %RH, 0.01 degree.
- * Data logger with 1000 reading value.
- * DC 9V battery or AC/DC adapter power in.
- * RS-232/USB, separate probe.



HUMIDITY METER, Dew point, Temp., RS232 Model : HT-3015

- * Measurements : Humidity, Temp., Dew point
- * Resolution : 0.01 %RH, 0.01 degree.
- * 1000 data logger, RS-232/USB interface.
- * Fast response time.
- * Separate probe.
- * LCD display, 006P DC 9 V battery.
- * Size : 180 x 72 x 32 mm.



HUMIDITY/TEMP. METER, + type K/J Temp. Model : HT-3006A

- * Humidity meter/%RH : 10 to 95 %RH.
- * Humidity meter/Temp. : 0 to 50.0 °C, °C/°F.
- * Type K Thermometer : -199.9 °C to 1300 °C.
- * Type J Thermometer : -199.9 °C to 1100 °C.
- * Max., Min., data hold, RS-232/USB interface.
- * Type K Temp. probes (optional) : TP-01, TP-02A, TP-03, TP-04, refer page 47.



HUMIDITY METER, Dew point, Temp. Model : HT-3015HA

- * Max., Min., Memory recall button.
- * 10% - 95% RH, 0 - 50.0 °C, °C/°F.
- * Measurements : Humidity, Temp., Dew point
- * Resolution : 0.01 %RH, 0.01 degree.
- * Fast response time, Separate probe.
- * LCD display, 006P DC 9 V battery.
- * Size : 185 x 78 x 38 mm.



HUMIDITY/TEMP. METER, + type K/J Temp. Model : HT-3006HA

- * Humidity meter/RH : 10% - 95% RH.
- * Humidity meter/Temp. : 0 - 50.0 °C, °C/°F.
- * Type K Thermometer : -199.9 °C to 1300 °C.
- * Type J Thermometer : -199.9 °C to 1100 °C.
- * Temp. probes (optional) : TP-01, 02A, 03, 04, refer to page 47.



HUMIDITY METER, data logger, RS232

Model : YK-90HT

- * Humidity, Temp., Dew point.
- * Humidity range : 10 % to 95 % R.H.
- * Temp. range : 0 °C to 50 °C, 32 °F to 122 °F.
- * 0.01 %RH, 0.01 degree.
- * 1000 data logger point.
- * Optional data transmission software, SW-DL2005.
- * RS-232/USB computer interface.

HUMIDITY METER, +Dew Point + Type K

Model : HD-3008



HUMIDITY METER

Model : MY-91HT

- * Measurements : Humidity, Temp., Dew point.
- * Humidity range : 10 % to 95 % R.H.
- * Temp. range : 0 °C to 50 °C, 32 °F to 122 °F.
- * Resolution : 0.01% RH, 0.01 degree.
- * 1000 data logger point.
- * Fast response time, 1,000 point data logger.
- * RS-232/USB, Data hold, Record (Max., Min.).
- * DC 1.5V (UM-4, AAA) battery x 6.



HUMIDITY/TEMP. METER

Model : PHT-316

- * Humidity : 10% to 95% RH.
- * Temperature : 0 to 50 °C.
- * Temp. unit : °C, °F. internal adjustment.
- * Humidity measurement with fast response time
- * All in one, pen type, easy carryout.
- * Hold function to freeze display value.
- * Built-in reverse display button.
- * DC 1.5V battery (UM-4, AAA) x 4.



33 %RH HUMIDITY CALIBRATOR

Model : RHA-33

75% RH HUMIDITY CALIBRATOR

Model : RHA-75



HUMIDITY/BAROMETER/TEMP. METER

Model : PHB-318

- * Barometer : 10 to 1100 hPa, mmHg, inHg.
- * Humidity : 10% to 95% RH, Dew.
- * Temperature : 0 to 50 °C, °C/°F.
- * All in one, pen type, easy carryout.
- * Hold, Record (max., min.).
- * DC 1.5V battery (UM-4, AAA) x 4.



HUMIDITY METER

Model : LM-81HT

- * Humidity : 10 to 95 %RH.
- * Temperature : 0-50.0 °C, °C/°F.
- * Tiny bone shape with light weight and small size.



**VANE ANEMOMETER/BAROMETER/
HUMIDITY/TEMP.**

Model : ABH-4225

- * Air velocity : 0.4 to 30.0 m/s, ft/min., km/h, mile/h, knots.
- * Barometer : 10 to 1100 hPa, mmHg, inHg.
- * Humidity : 10% to 95% RH, Dew.
- * Temperature : 0 to 50 °C, °C/°F.
- * All in one, hand held type.
- * Vane probe, high reliability.
- * Hold, Record (max., min.).
- * DC 1.5V battery (UM-4, AAA) x 4.



CUP ANEMOMETER/BAROMETER/HUMIDITY/TEMP.

Model : ABH-4224

- * Air velocity : 0.9 to 35.0 m/s, ft/min., km/h, mile/h, knots.
- * Barometer : 10 to 1100 hPa, mmHg, inHg.
- * Humidity : 10% to 95% RH, Dew.
- * Temperature : 0 to 50 °C, °C/ °F.
- * All in one, hand held type.
- * Cup type probe, no wind direction.
- * Hold, Record (max., min.).
- * DC 1.5V battery (UM-4, AAA) x 4.

Sound Level Meter

SERIES



SOUND LEVEL METER, economical type

Model : SL-4010

- * Frequency & time weighting meet IEC 61672 class 2.
- * 35 to 130 dB, 3 ranges, Data hold.
- * A frequency weighting, Fast time weighting.
- * Size : 250 x 83 x 32 mm.

SOUND LEVEL METER

Model : SL-4001

- * Frequency & time weighting meet IEC 61672 class 2.
- * A, C weighting, Max. hold, Data hold, fast/slow time weighting, AC/DC output.
- * Range : 3 ranges, 30 to 130 dB.
- * Size : 245 x 80 x 35 mm.



SOUND LEVEL METER, type 1

Model : SL-4022

- * Frequency & time weighting meet IEC 61672 class 1.
- * 30 to 130 dB, 3 ranges, Max. hold, Data hold.
- * A/C frequency weighting, F/S time weighting.
- * AC output, Internal 94 dB calibration.
- * Professional sound level meter.
- * Size : 260 x 87 x 36 mm.

SOUND LEVEL METER

Model : SL-4011

- * Frequency & time weighting meet IEC 61672 class 2.
- * A, C weighting, Max., Data hold, fast/slow time weighting.
- * AC/DC output, Max. Hold.
- * Reset button for Max. hold.
- * Range : 3 ranges, 30 to 130 dB.
- * Size : 250 x 83 x 32 mm.



WIND SHIELD BALL

Model : SB-01

- * Available for all Sound Level Meter.



SOUND LEVEL METER, Auto Range & RS-232

Model : SL-4012

- * 30 - 130 dB, Auto range, Manual range.
- * Frequency & time weighting, IEC 61672 class 2.
- * A & C frequency weighting.
- * Fast / Slow time weighting, Data hold.
- * Peak hold, Memory (max., min.).
- * AC output & RS-232/USB computer interface.
- * Size : 268 x 68 x 29 mm.

Auto Range RS-232



SOUND LEVEL METER, separate probe

Model : SL-4013

- * 30 to 130 dB, Auto range.
- * RS-232/USB computer interface.
- * 180° rotary sensor shelf.
- * Separate probe optimum for remote measurement and low noise environment test.

SOUND CALIBRATOR, 94 dB

Model : SC-941

- * Professional, 1 KHz.
- * Die casting aluminum alloy housing case.
- * DC 9V batteries x 2 PCs.
- * Size : round 50 mm Dia. x 82 mm.

SOUND CALIBRATOR, 94 dB & 114 dB

Model : SC-942



Sound Level Meter Ultrasonic Leakage Ultrasonic Detector



SOUND LEVEL METER, *pocket type*

Model : SL-4030

- * Main specification meets IEC 61672 class 2.
- * A, C weighting, Max. hold, fast/slow time weighting, AC/DC output.
- * Range : 3 ranges, 30 to 130 dB.
- * Mini pocket size.
- * DC 9V battery (006P) or DC 9V adapter in.



ULTRASONIC LEAKAGE DETECTOR

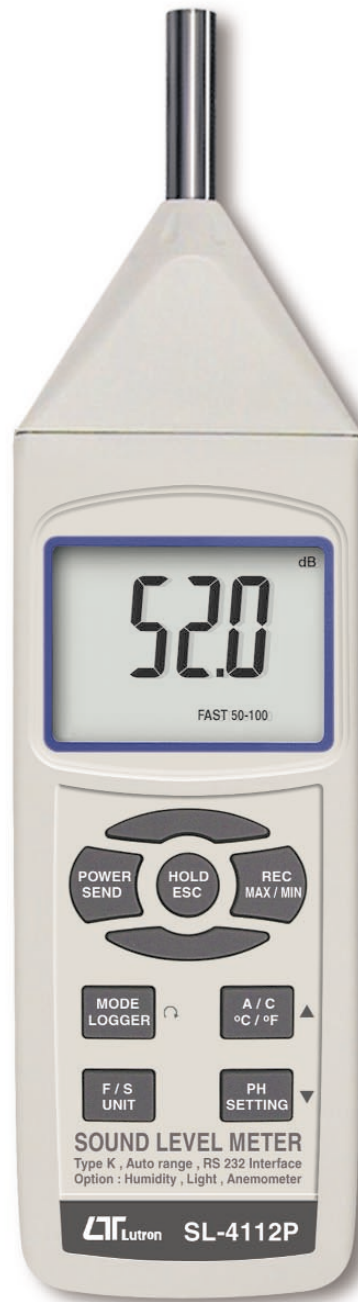
Model : GS-5800

- * Applications :
Air leaks around door & window gaskets & seals, Conduit & pipe identifications, Windshield leaks...
- * Bar LED to show the leakage level.
- * Size : 255 x 70 x 28 mm.

ULTRASONIC TRANSMITTER

Model : GS-400

- * Frequency output : 40 KHz.
- * Crystal time base, 9V battery power.
- * Size : 146 x 50 x 26 mm
- * Work with the GS-5800.



EM-910P (for SL-4112P)

SOUND LEVEL METER *auto range + Type K/J Thermometer.* *optional Humidity, Light, Anemometer*

Model : SL-4112P (with EM-910P)

- * 30-130 dB, auto range, manual range.
- * Frequency and time weighting meet IEC 61672 class 2.
- * A or C frequency weighting.
- * Fast/Slow time weighting, peak hold.
- * Data hold, Record (max., min.).
- * AC output, RS232/USB interface.
- * Data logger.
- * Optional data transmission software, SW-E2005, SW-DL2005.
- * Type K Temp. : -100 to 1300 °C, °C/°F.
- * Type J Temp. : -100 to 1100 °C, °C/°F.

- * Optional type K Temp. probes : TP-01, TP-02A, TP-03, TP-04, TP-05.
- * DC 1.5V battery (UM-4/AAA) x 6 or DC 9V adapter in.
- * Optional wind shield ball, SB-01.
- * Optional USB cable, USB-01.
- * Optional data acquisition softwares, SW-U801-WIN, SW-E802.
- * EM-900P probe : Humidity/Temp., Light and Anemometer.
- * EM-910P probe is the standard probe for SL-4112P.

Vibration Meter

SERIES



VIBRATION METER

Model : VB-8200

- * Separate professional vibration sensor.
- * Velocity : 200 mm/s.
- * Acceleration : 200 m/s².
- * RMS, Peak, Hold, Record, RS-232/USB interface.

VIBRATION METER

Model : VB-8210

- * Built-in Metric & Imperial display unit.



VIBRATION METER, Acc., Velocity, Disp.

Model : VB-8220

- * Separate professional vibration sensor.
- * Acceleration : 200 m/s².
- * Velocity : 200 mm/s.
- * Displacement (p-p) : 2 mm.
- * RMS, Peak value.
- * RS-232/USB computer interface.
- * Hard carrying case is included.
- * DC 9V battery (006P).



Acc., Vel., Displacement, data logger

VIBRATION METER

Model : VB-8213

- * Acceleration : 200 m/s².
- Velocity : 200 mm/s.
- Displacement : 2.0 mm.
- * Max hold, peak value, data hold.
- * Memory (Max., Min.)
- * LCD display with bar graph.
- * 500 point data logger.
- * Zero adjustment, RS-232/USB computer interface.
- * Optional data transmission software, SW-DL2005.
- * Accelerator and hard carrying case are included.



3 in 1

VIBRATION/TACHOMETER

Model : VT-8204

- * Separate professional vibration sensor.
- * Vibration meter :
 - Acceleration : 200 m/s², RMS, PEAK, Max. Hold, g, ft/s².
 - Velocity : 200 mm/s, RMS, PEAK, Max. Hold, cm/s, inch/s.
 - Displacement (p-p) : 2 mm, Max. Hold, cm, inch.
- * Tachometer (photo) : 10 to 100,000 RPM.
- Tachometer (contact) : 5 to 19,999. RPM
- Tach. (surface speed) : m/min., ft/min. inch/min.
- * Laser photo tachometer.
- * 1000 Data logger point.
- * Data hold, record (Max., Min.)
- * Optional IR probe, IR-962.
- * RS-232/USB computer interface.
- * DC 1.5V (UM-3, AA) x 4 PCs.
- * Patented.



VIBRATION METER Model : VB-8202

- * Separate professional vibration probe.
- * Velocity : 200 mm/s.
- * Acceleration : 200 m/s².
- * RMS, Peak, Hold, Record, RS-232/USB interface.

VIBRATION METER Model : VB-8212

- * Built-in Metric & Imperial display unit.



Acc., Vel., Displacement, data logger

VIBRATION METER

Model : VB-8203

- * Acceleration : 200 m/s².
- Velocity : 200 mm/s.
- Displacement (p-p) : 2 mm.
- * Max hold, peak value, data hold.
- * Memory (Max., Min.)
- * LCD display with bar graph.
- * RS-232/USB interface, data logger.
- * Hard carrying case is included.
- * Size : 200 x 68 x 30 mm,
- Power : 9V battery.



VIBRATION METER

Model : VB-8201HA

- * Professional vibration sensor is included.
- * Velocity : 200 mm/s.
- * Acceleration : 200 m/s².
- * RMS, Peak Hold, Max./Min.
- * Size : 185 x 78 x 38 mm.

Moisture, Soil Moisture

SERIES



MOISTURE METER

Model : MS-7000

- * Range : 9% to 30% moisture content.
- * 9 material species groups in memory.
- * Max., Min., Data hold, Self-calibration.
- * Size : 180 x 72 x 32 mm. RS-232/USB.



all in one, bar graph LED + LCD MOISTURE METER

Model : MS-7003

- * Wood and concrete moisture measurement.
- * Wood material : 6 % to 40 % moisture content.
- * Concrete material : 0 % to 100 % moisture content.
- * Red LED bar graph indicator with LCD display,
- * Meter is built-in test probe, all in one, easy operation.
- * Data hold, Record (max., min.).
- * Optional external probe, Model : MP-31.
- * DC 9V battery (006P).



CONCRETE /WOOD MOISTURE METER

Model : MS-7002

- * 3 functions : Concrete, Wood, Gypsum.
- * Wood : 6% to 40% moisture content.
- * Concrete : 0% to 100% moisture content.
- * Gypsum: 0.2% to 50% moisture content.
- * Max., Min., Data hold, Self-calibration.
- * Size : 180 x 72 x 32 mm. RS-232/USB.



MOISTURE METER

Model : MS-7001

- * Range : 9% to 30% moisture content.
- * Max., Min., Data hold.
- * Economical Moisture meter.
- * Size : 185 x 78 x 38 mm.



MOISTURE METER

Model : PMS-713

- * Wood and concrete moisture measurement.
- * Wood material : 6 to 40% moisture content.
- * Concrete material : 0 to 100% moisture content.
- * Meter is built-in test probe, all in 1, easy operation.
- * Hold function to freeze display value.
- * IP-65 Water resistance, heavy duty.
- * DC 1.5V battery (UM-4, AAA) x 4.



SOIL MOISTURE METER

Model : PMS-714

- * Soil moisture content measurement.
- * Range : 0 to 50 % moisture content.
- * Heavy duty probe, probe length : 20 cm.
- * Meter is built-in test probe, all in one, easy operation.
- * Hold, Record (max., min.).
- * IP-65 Water resistance, heavy duty.
- * DC 1.5V battery (UM-4, AAA) x 4.

EMF (Low Frequency) SERIES



EMF TESTER

Model : EMF-823

- * Electromagnetic field tester.
- * Ranges : 20/200/2,000 micro Tesla.
200/2000/20,000 milli-Gauss.
- * Size : 163 x 70 x 30 mm, 13 mm LCD.



3 axis

EMF TESTER

Model : EMF-828

- * Three axis (X, Y, Z direction) electromagnetic field measurement.
- * Ranges : 20/200/2,000 micro Tesla.
200/2,000/20,000 milli-Gauss.
- * Band width : 30 Hz to 300 Hz.
- * LCD display, jumbo digit size.
- * Heavy duty separate probe.
- * Data hold, DC 9V battery.
- * Hard carrying case is included.
- * Size : 200 x 68 x 30 mm.



EMF TESTER, separate probe

Model : EMF-827

- * Electromagnetic field tester.
- * Ranges : 20/200/2,000 micro Tesla.
200/2000/20,000 milli-Gauss.
- * Separate probe.
- * Size : 163x70x30 mm.



EMF TESTER, pocket

Model : EMF-822A

- * Electromagnetic field tester.
- * 20 micro Tesla x 0.01 micro Tesla
- * 200 milli Gauss x 0.1 milli Gauss
- * Display : 13 mm LCD. Pocket size.
- * Size : 131 x 70 x 25 mm

RF (Radio Frequency) Electromagnetic Field Meter



50 MHz to 3 GHz, general purpose, one probe 3 Axis RF Electromagnetic Field Meter

Model : EMF-819

- * 3 Axis RF EMF tester, general purpose application.
- * Frequency range up to 3 GHz, for monitoring the wide range radio frequency EMF value or detect the micro wave leakage.
- * Measuring ranges : 0 to 199.99 V/m,
0 to 99.999 W/m²
0 to 9.9999 mW/cm²
- * Data hold, Peak hold. Record (Max., Min. value).
- * Frequency Probe, EP-05H is included .
- * Hard carrying case is included..
- * RS232/USB computer interface.
- * Large size LCD, Microcomputer circuit.
- * Powered by DC 9V battery or DC 9V adapter.



100 KHz to 3 GHz, 2 probes, professional 3 Axis RF Electromagnetic Field Meter

Model : EMF-839

- * 3 axis probe structure, professional RF frequency electromagnetic field tester.
- * Frequency range : 100 KHz to 3 GHz.
- * Units : V/m, W/m², mW/cm².
- * Measuring ranges :
0 to 199.99 V/m,
0 to 99.999 W/m²,
0 to 9.9999 mW/cm²
- * Probe 1 (low frequency probe) :
100 KHz to 100 MHz, Model EP-04L.
- * Probe 2 (high frequency probe) :
100 MHz to 3 GHz, Model EP-03H.
- * Data hold, peak hold.
- * Record (Max., Min. value).
- * Peak hold function to latch peak value.

- * Data hold function to lock the current reading.
- * RS232/USB computer interface.
- * Real time data logger, built-in clock (hour-MIN-sec., year-month-date).
- * Auto or manual data record, 16,000 Data logger no.
- * Alarm value setting.
- * Complete set with two probes, EP-04L, EP-03H and hard carrying case.
- * Applications :
EMF-839 is professional RF EMF tester, used for broadband devices of monitoring high frequency radiation in the range electromagnetic field strength measurement of the Mobile phone, cell phone base station, microwave leakage...



EP-03H
High frequency probe
100 MHz to 3 GHz

EP-04L
Low frequency probe
100 KHz to 100 MHz



COLOR ANALYZER, probe + meter, RS232

Model : RGB-1002

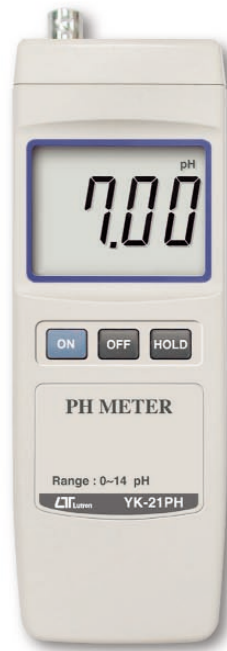
- * Measuring sample : no lighting sample (textiles, paper, leathers...).
- * Measurement values : RGB value, HSL value (Hue/Saturation/Luminance).
- * R (Red) value : 0 to 1023.
G (Green) value : 0 to 1023.
B (Blue) value : 0 to 1023.
- * 45° /0° color measuring geometry.
- * Used the spectral analysis method to determine the color of the sample.
- * Complete set includes the color probe and the meter, showing RGB or HSL values at same time.
- * RS232/USB computer interface.
- * Power : 006P DC 9V battery.
- * Meter size : 203 x 76 x 38 mm.



PH METER, RS-232

Model : PH-208

- * pH : 0 to 14.00 pH, ± 1999 mV.
- * mV function for ORP electrode.
- * Manual temperature compensation.
- * ATC via optional Temp. probe (TP-07).
- * Easy pH calibration procedures.
- * RS232/USB, Hold, Record (Max., Min.), °C/°F.



PH METER

Model : YK-21PH

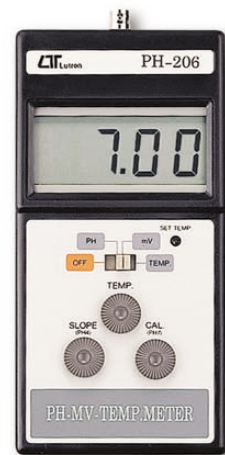
- * 0 to 14 pH x 0.01 pH.
- * Large LCD display, 21.5 mm digit height.
- * Accuracy : ± 0.1 pH (pH 4 to pH 10).
- * Data hold, professional case.



PH METER

Model : PH-207HA

- * 0 to 14 pH x 0.01 pH.
- * μ -P circuit, LCD with annunciator.
- * Max., Min., Memory recall button.
- * pH, mV, Temp., manual Temp. Adj. or ATC.



PH-mV-TEMP. METER

Model : PH-206

- * pH : 0 to 14.00 pH, mV : -1999 to 1999 mV, Temp. : 0 to 100.0 °C.
- * Manual/Auto Temp. compensation.
- * Size : 160 x 80 x 35 mm.



PH METER, RS-232

Model : PH-207

- * 0 to 14 pH x 0.01 pH.
- * μ -P circuit, LCD with annunciator.
- * Max., Min., Memory recall button.
- * pH, mV, Temp., manual Temp. Adj. and ATC, RS232/USB interface.
- * Size : 180 x 72 x 32 mm. RS232/USB.



PH METER, pocket

Model : PH-201

- * 0 to 14 pH x 0.01 pH.
- * Economical type.
- * pocket size.
- * Accuracy : ± 0.1 pH (pH 4 - pH 10).
- * Display : LCD, 13 mm digit size.
- * Size: 131 x 70 x 25 mm.

pH Meters SERIES

Soil pH Meters



PEN PH METER

Model : PH-220

- * Separate pH electrode, easy for general purpose and remote measurements.
- * 0 to 14.00 pH.
- * Auto calibration for pH 4, pH 7 or pH 10.
- * Temp. adjustment is not necessary.
- * IP-65 water proof.
- * Pen type, easy carry out.
- * Complete set with separate pH electrode (PE-11) and pH 4, pH 7 standard solutions.
- * Built-in reverse display button.
- * DC 1.5V battery (UM-4, AA) x 4, long life.



PEN PH METER

Model : PH-222

- * 0 to 14.00 pH.
- * ATC (auto temperature compensation).
- * Auto calibration for pH 4, pH 7 or pH 10.
- * Meter with pH electrode, all in one.
- * IP-67, water proof.
- * Easy replacement for the pH electrode.
- * Pen type, easy carry out.
- * Data logger.
- * pH 4, pH 7 standard solutions are included.
- * DC 1.5V battery (UM-4, AA) x 4, long life.

PEN PH METER, *economical type*

Model : PH-223

- * 0 to 14.00 pH.



SOIL PH METER

Model : PH-220S

- * Complete set with separate soil, spear tip pH electrode and pH 4 and pH 7 standard solutions.
- * Meter : 0 to 14 pH x 0.01 pH. Electrode : 1 to 13 pH.
- * Auto calibration for pH 4, pH 7 or pH 10.
- * Temp. adjustment is not necessary.
- * IP-65 water proof.
- * Built-in reverse display button.
- * DC 1.5V battery (UM-4, AA) x 4, long life.
- * Spear tip pH electrode, ideal for penetration pH measurements into soil, meats, cheese and other type of measurements requiring sample penetration.



SOIL PH METER

Model : PH-212

- * Kits with pH METER, soil pH electrode, pH 4.0/pH 7.0 standard solutions, carrying case.
- * Meter : 0 to 14 pH x 0.01 pH. Electrode : 1 to 13 pH.
- * Pocket housing, LCD display.
- * Meter size : 135 x 60 x 33 mm.
- * Spear tip pH electrode (included), ideal for penetration pH measurements into soil, meats, cheese and other type of measurements requiring sample penetration.



PH METER, *ATC ,two displays*

Model : PH-221

- * 0 to 14.00 pH, $\pm 1,999$ mV.
- * LCD shows both pH and the temperature.
- * ATC or manual TEMP. compensation.
- * Auto calibration for pH 4, pH 7 and pH 10.
- * Optional pH electrode and the ATC probe.
- * 1600 Data logger point.
- * RS232/USB computer interface.
- * DC 9V battery (006P) or DC 9V adapter in.



PH METER

Model : PH-211

- * 0 to 14 pH x 0.01 pH.
- * Pocket size, LCD display.
- * Wall mount available for monitoring usage.
- * Size : 135 x 60 x 33 mm.

pH Electrode pH Solution



PE-03



PE-11



PE-01



PE-02

pH ELECTRODE Model : PE-03

- * General purpose, cost effective.
- * 1 to 13 pH (typical 0 to 14 pH).
- * Epoxy body, w/BNC connector.
- * Body size : 12.3 mm Dia. x 160 mm.

pH ELECTRODE Model : PE-11

- * General purpose, high quality, cost effective.
- * 1 to 13 pH (typical 0 to 14 pH).
- * Epoxy body, w/BNC connector.
- * Size : 10 mm Dia. x 128 mm.

pH ELECTRODE Model : PE-01

- * Professional, Laboratory, high quality & field usage.
- * 0 to 14 pH.
- * Epoxy body with BNC connector.
- * Size : 9.5 mm Dia. x 130 mm.

glass body HEAVY DUTY pH ELECTRODE Model : PE-02

- * Glass body heavy duty and long life pH electrode.
- * Professional, Laboratory, high quality & field usage.
- * 0 to 14 pH.
- * BNC connector.
- * Size : 15 mm Dia. x 150 mm.

glass body PLANE pH ELECTRODE Model : PE-08

- * Professional plane pH electrode, application for Laboratory, high quality & field usage, such as skin, food... pH measurement.
- * 0 to 14 pH.
- * Glass body with BNC connector.
- * Size : 15 mm Dia. x 137.5 mm.

pH ELECTRODE + TEMP. PROBE Model : PE-03K7

- * One kit combine pH electrode PE-03 & Temp. probe TP-07 as a whole unit.
- * Easy operation for the pH measurement under the ATC (Automatic Temp. Compensation).
- * Available for PH-208, PH-207, PH-207HA, YK-2001PH, YK-2005WA, PH-209B, PH-221, PH-221E, PH-230SD, WA-2015, WA-2017SD, BPH-231.

OPTIONAL TEMP. PROBE for pH METER Model : TP-06

- * The optional Temp. probe for PH-206.
- * Transistor sensor, 0 to 60 °C.

Model : TP-07

- * The optional Temp. probe for PH-207, PH-207HA, PH-208, PH-209B, YK-2005WA, WA-2015, WA-2017SD, PH-221, PH-221E, BPH-231.
- * Thermistor sensor, 0 to 60 °C.



PE-08



PE-03K7



TP-06
TP-07

professional Industrial in line pH ELECTRODE Model : PE-21

- * Heavy duty pH electrode, design for monitoring pH value continuously in the factory and laboratory.
- * Range : 0 to 14 pH.
- * Available for pH controller, PPH-2108. refer page 85.

SPEAR TIP pH ELECTRODE Model : PE-06HD

- * Penetration pH measurement into meats, cheese, soil and other penetration samples.
- * General purpose, cost effective.

SPEAR TIP pH ELECTRODE Model : PE-04HD

- * The PH-04HD spear tip pH electrode is ideal for penetration pH measurements into meats, cheese, soil and other types of measurements requiring sample penetration.
- * pH range : 0 to 14 pH. Temp. range : 0 to 60 °C.
- * Size : 12 mm Dia. x 157 mm.



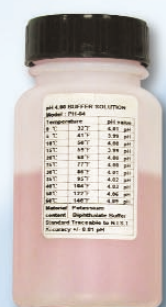
PE-21



PE-06HD



PE-04HD



PH-07, PH-04



PH-07A, PH-04A

pH 7 BUFFER SOLUTION Model : PH-07

- * pH 7.00 buffer solution.

pH 4 BUFFER SOLUTION Model : PH-04

- * pH 4.00 buffer solution.

pH 7 BUFFER SOLUTION Model : PH-07A

- * pH 7.00 buffer solution.

pH 4 BUFFER SOLUTION Model : PH-04A

- * pH 4.00 buffer solution.



CONDUCTIVITY METER

Model : YK-43CD

- * 2 Ranges : 2 mS, 20 mS.
- * Large LCD display, 21.5 mm digit height.
- * Automatic temperature compensation.
- * Data hold, professional housing case.



CONDUCTIVITY/TDS METER

Model : YK-22CT

- * Conductivity : 2 mS, 20 mS, 2 ranges.
- * TDS : 2,000, 20,000 PPM, 2 ranges.
- * Temp. : 0 to 60.0 °C, °C/°F.
- * ATC, Hold, Record (Max., Min.).
- * RS232/USB computer interface.



Wide range CONDUCTIVITY METER

Model : CD-4306

- * Wide ranges conductivity meter.
- * 4 ranges : 200 uS, 2 ms, 20 mS, 200 mS.
- * 4 rings conductivity probe
- * Data hold.



CONDUCTIVITY METER

Model : CD-4303

- * μ -P circuit, LCD with display unit.
- * Max., Min., Memory recall button.
- * 200 μ S/2 mS/20 mS, ATC, Cell Adj.
- * RS232/USB computer interface.
- * Size : 180 x 72 x 32 mm. .



Real time data logger CONDUCTIVITY METER

Model : YK-2005CD

- * High capacity, 16,000 data logger no.
- * Real time data logger (record year, month, date, hour, minute, second).
- * Ranges : 200 uS/2 mS/20 mS/200 mS.
- * Automatic temp. compensation, ATC factor adj.
- * Carbon rod electrode for long life.
- * Max., Min., Data hold, zero adjust.
- * RS232/USB computer interface.
- * Jumbo LCD display.
- * DC 1.5V (UM3, AA) x 4 PCs or DC 9V adapter in.
- * Size : 203 x 76 x 38 mm.



ATC, two displays CONDUCTIVITY METER

Model : CD-4322

- * 3 ranges : 2 mS, 20 mS, 100mS.
- * Temperature measurement, °C/ °F.
- * LCD display, pocket type.
- * Automatic temperature compensation.
- * 1600 Data logger point.
- * Separate probe, easy operation.
- * RS232/USB interface, Record.
- * DC 9V battery (006P) or DC 9V adapter in.



Pen type CONDUCTIVITY METER

Model : PCD-431

- * 2 ranges : 2,000 uS, 20 mS.
- * Temperature measurement, °C/°F.
- * Automatic temperature compensation.
- * Probe with the meter, all in one.
- * Carbon rode electrode, high reliability.
- * Data hold, Record (max., min.).
- * IP-67 Water resistance, heavy duty.
- * External calibration buttons.
- * DC 1.5V battery (UM-4, AAA) x 4.



CONDUCTIVITY METER

Model : CD-4301

- * 4 ranges: 200 μ S, 2mS, 20mS, 200mS.
- * Automatic temperature compensation.



CONDUCTIVITY METER

Model : CD-4303HA

- * μ -P circuit, LCD with display unit.
- * Max., Min., Memory recall button.
- * 200uS/2mS/20mS, ATC, Cell adj.
- * Size : 185 x 78 x 38 mm.



CONDUCTIVITY METER, pocket

Model : CD-4302

- * 2 ranges : 0 -1.999 mS, 2 -19.99 mS.
- * Automatic temperature compensation.



1.413 mS Conductivity solution

Model : CD-14

Dissolved Oxygen SERIES



OXYGEN METER

Model : DO-5510

- * μ -P circuit, LCD with annunciator.
- * Dissolved Oxygen range : 0 to 20.0 mg/L.
- * Temp. : 0 to 50 °C, °C/°F.
- * Max., Min., Memory recall button.
- * DO, Oxygen in air, Temp., ATC, Auto Calibration, % salt, RS232/USB.
- * Head diaphragm set & electrolyte are included.



OXYGEN METER

Model : DO-5510HA

- * μ -P circuit, LCD with display unit.
- * Dissolved oxygen range: 0 to 20 mg/L.
- * Max., Min., Memory recall button.
- * DO, Oxygen in air, Temp., ATC, Auto cal.
- * Probe head with diaphragm set and electrolyte are included.



DISSOLVED OXYGEN METER, all in 1

Model : PDO-519

- * Range : 0 to 20.0 mg/L x 0.1 mg/L.
- * Temperature : 0 to 50 °C, °C/°F.
- * Automatic temperature compensation.
- * Probe with the meter, all in one.
- * Polarographic type oxygen electrode, professional.
- * Data hold, Record (max., min.).
- * IP-67 Water Resistance, heavy duty.
- * External calibration buttons.
- * DC 1.5V battery (UM-4, AAA) x 4.



separate probe

DISSOLVED OXYGEN METER

Model : PDO-529

- * Range : 0 to 20.0 mg/L x 0.1 mg/L.
- * Temperature : 0 to 50 °C, °C/°F.
- * Automatic temperature compensation.
- * Separate DO probe easy for remoting operation.
- * Polarographic type oxygen electrode, professional.
- * Data hold, Record (max., min.).
- * External calibration buttons.
- * DC 1.5V battery (UM-4, AAA) x 4.



DISSOLVED OXYGEN METER

Model : YK-22DO

- * 0 to 20.0 mg/L.
- * Temp. : 0 to 50.0 °C, °C/°F.
- * Automatic temperature compensation.
- * RS232/USB, Hold, Record (Max., Min.)
- * Head diaphragm set & electrolyte are included.



DISSOLVED OXYGEN METER, two displays

Model : DO-5519

- * Range : 0 to 20 mg/L x 0.1 mg/L.
- * Temperature : 0 to 50 °C.
- * LCD display, pocket size.
- * Automatic temperature compensation.
- * 1600 Data logger point.
- * Separate probe, easy operation.
- * RS232/USB interface, Record (max., min.)
- * Power : DC 9V battery or DC 9V adapter in.



DISSOLVED OXYGEN METER, pocket

Model : DO-5509

- * Range : 0 to 20 mg/L, ATC.
- * Head diaphragm set & electrolyte are included.



OXEL-03 OXHD-04

DO probe filling electrolyte,

Model : OXEL-03

DO probe head diaphragm set

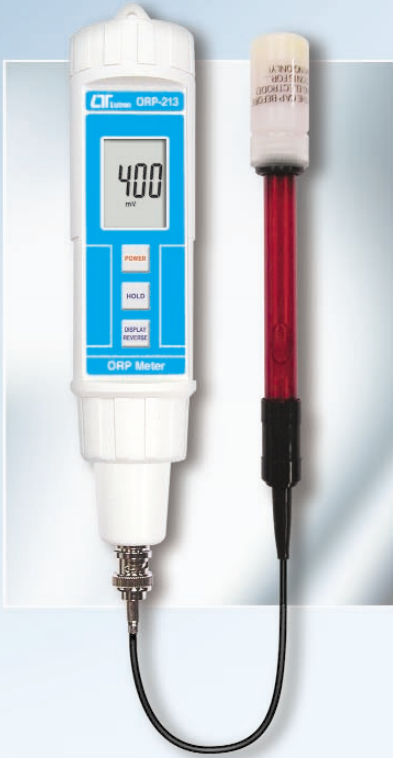
Model : OXHD-04

ORP, ORP Electrode Negative Water SERIES

ORP METER

Model : ORP-213

- * Range : -1,000 mV to 1,000 mV.
- * Professional ORP electrode, ORP-14 is included.
- * Separate ORP electrode, easy operation.
- * High input impedance.
- * Data hold.
- * Built-in reverse display button.
- * IP-65 Water resistance, heavy duty.
- * DC 1.5V battery (UM-4, AA) x 4, long life.



Akaline ion water tester NEGATIVE ION WATER TESTER Model : NI-214

- * For health reason, negative (alkaline) water generator is used in the home and office popularly. However seldom peoples know the intensity of negative (alkaline) ions that are contained in the water.
- * NI-214 is the useful tester to measure the negative ion value in the water.
- * Tester with negative ion (ORP) probe and the carrying case.
- * Measurement range : 0 to $\pm 1,999$ mV.
- * LCD display, data hold.
- * DC 9V battery (006P) .



ORP METER Model : YK-23RP

- * Range : -1999 mV to + 1999 mV.
- * Large LCD display, 21.5 mm digit height.
- * High input impedance.
- * Data hold, professional housing case.

ORP ELECTRODE, professional Model : ORP-14

- * Professional ORP electrode with high accuracy and extreme reliability.
- * Silver-silver/chloride reference gel.
- * Epoxy body, BNC connector and 3 meters cable.
- * 12.5 mm Dia, x 150 mm length.
- * Range : -2,000 to 2,000 mV.
- * Optional, to cooperate ORP meters (ORP-203, YK-23RP, PH-206, PH-207, PH-207HA, PH-208, YK-2001PH, PH-221, PH-221E, WA-2015, WA-2017SD, BPH-231, YK-2005WA), applications for water conditioning, aquariums, beverage, fish hatcheries, food processing, photography, laboratory, paper industry, quality control.
- * ORP-14 is the standard accessory (included) of NI-214, ORP-213.



ORP METER Model : ORP-203

- * Range : -1999 mV to + 1999 mV.
- * High impedance.
- * Pocket size.
- * Display : LCD 13 mm digit size.
- * Size : 131 x 70 x 25 mm.

(Optional)



SALT METER

Model : PSA-311

- * Measurement : 0 to 12.0 % salt (% weight value)
- * Automatic temperature compensation.
- * Meter is built-in test probe, all in 1, easy operation.
- * Hold, Record (max., min.).
- * IP-65 Water resistance, heavy duty.
- * DC 1.5V battery (UM-4, AAA) x 4.



PURE WATER TESTER

Model : WA-300

- * Water conditioning, home, aquariums, food processing, photography, school, laboratory, industry & quality control.
- * Check the condition of water filter.
- * Measurement : 0 to 1999 μ S.



PURE WATER METER

Model : PWA-301

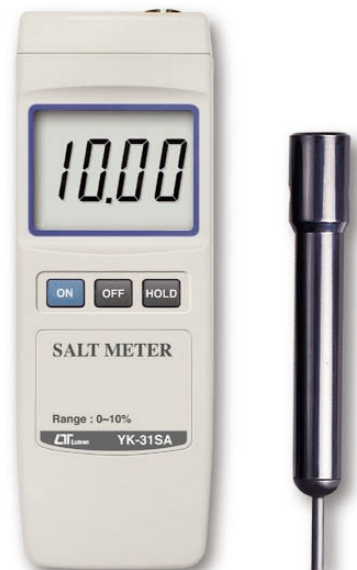
- * Water conditioning, aquarium, food processing, photography, school, laboratory, industrial and quality control.
- * Check the condition of water filter.
- * Measurement : 0 to 1999 μ S.
- * Meter with the probe, all in 1, easy operation.
- * Hold, Record (max., min.).
- * IP-67 Water resistance, heavy duty.
- * DC 1.5V battery (UM-4, AAA) x 4.



PURE WATER TESTER

Model : YK-30WA

- * Water conditioning, home, aquariums, food processing, photography, school, laboratory, industry & quality control.
- * Check the condition of water filter.
- * Measurement : 0 to 1999 μ S.
- * 21.5 mm digit height, Data hold.



SALT METER

Model : YK-31SA

- * Measurement : 0 to 10.0% salt (% weight).
- * Large LCD display, 21.5 mm digit height.
- * Automatic temperature compensation.
- * Data hold, professional housing case.
- * Aquariums, Water conditioning laboratory, industry & quality control.

Turbidity, Chlorine Humidity Content



HUMIDITY CONTENT METER, + type K Temp.

Model : MS-7011

- * Complete set, meter + humidity probe (MS-71P).
- * Stainless Humidity content probe, used to measure the humidity content value for the materials of Grain, Corn, Rice. Cotton, Paper...
- * Functions : Humidity content , Dew point, Type K Thermometer.
- * Humidity content : 10 to 95 %RH.
- * Type K Temp. : -100.0 to 1300.0 °C.
- * Thin-film capacitance sensor for humidity content measurement.
- * Data hold, Record (Max., Min.).
- * RS232/USB computer interface.
- * Probe MS-71P is included, size : 10 mm Dia. x 600 mm length.



TURBIDITY METER

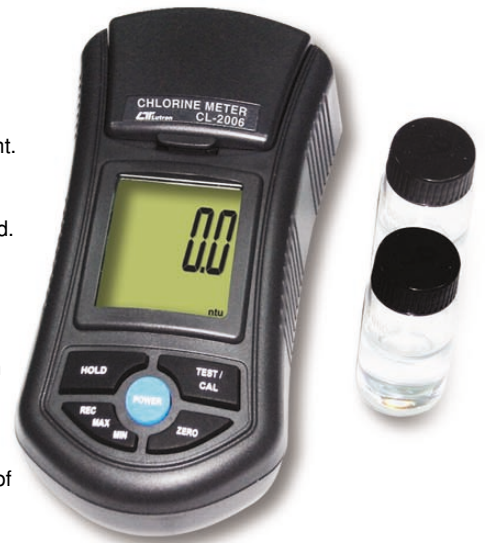
Model : TU-2016

- * Range : Auto range, two ranges, 0.00 to 50.00 NTU, 50 to 1,000 NTU.
- * Resolution : 0.01 NTU/1 NTU.
- * Light source : LED, 850 nm.
- * Record Max., Min. value.
- * Power : 1.5 V battery (UM-4/AAA) x 6 PCs.
- * 0 NTU and 100 NTU Calibration solution are included.
- * Designed to meet ISO 7027.

Free and Total CHLORINE METER

Model : CL-2006

- * Free chlorine, total Chlorine measurement.
- * Range : 0 to 3.5 mg/L (ppm).
- * Range : Auto range.
- * Measuring principal : Photo meter method.
- * Light source : LED, 525 nm.
- * Record Max, Min. value.
- * 10 PCs Free and Total powder DPD are included.
- * Free and total 1.0 mg/L standard solution are the standard accessories.
- * Power : 1.5 V battery (UM-4/AAA) x 6 PCs.
- * The measuring method is an adaptation of the USEPA Method 330.5 and Standard Method 4500-Cl G.



HUMIDITY CONTENT PROBE

Model : MS-71P

- * Standard probe is included for MS-7011, MS-7012SD.

MICROWAVE LEAKAGE DETECTOR

Model : EMF-810

- * Operating freq. range : 2.45 GHz \pm 50 MHz.
- * Measurement range : 0 to 1.999 mW/cm²
- * Peak hold, Alarm Setting.
- * Application for measuring the EMF value of microwave frequency precisely.
- * Useful equipment to detect the leakage of microwave oven.



Force Gauge SERIES



FORCE GAUGE, 20 Kg

Model : FG-5020

- * 20 Kg, Kg/LB/Newton.
- * Tension or Compression, Peak hold, Zero,
- * Positive/ Reverse display.
- * 4 digits LCD with back light.
- * RS-232/USB computer interface.
- * Full line accessories, optional test stand.
- * DC 1.5V battery (UM-3, AA) x 6 or DC 9V adapter in.



FORCE GAUGE, 5,000 g

Model : FG-5005

- * 5,000 g, g/oz/Newton.
- * Tension or Compression, Peak hold, Zero.
- * Positive/ Reverse display.
- * 4 digits LCD with back light.
- * RS-232/USB computer interface.
- * Full line accessories, optional test stand.
- * DC 1.5V battery (UM-3, AA) x 6 or DC 9V adapter in.



FORCE GAUGE, 5000 g

Model : FG-5000A

- * 5000 g, g/oz/Newton.
- * Tension & Compression, Peak hold, Zero, Positive/ Reverse display , 5 digits LCD.
- * Full line accessories, optional test stand.
- * RS-232 Model : FG-5000A-232.



FORCE GAUGE, 20 kg

Model : FG-20KG

- * 20 kg, kg/LB/Newton.
- * Tension & Compression, Peak hold, Zero, Positive/ Reverse display , 5 digits LCD.
- * Full line accessories, optional test stand.
- * RS-232 Model : FG-20KG-232.



FORCE GAUGE, 100 Kg

Model : FG-5100

- * 100 Kg, Kg/LB/Newton.
- * Tension or Compression, Peak hold, Zero,
- * Positive/ Reverse display.
- * 4 digits LCD with back light.
- * RS-232/USB computer interface.
- * Separate sensor, heavy duty.
- * DC 1.5V battery (UM-3, AA) x 6 or DC 9V adapter in.



for FG-5005, FG-5020, FG-5000A, FG-20KG TEST STAND

Model : FS-1001



WEDGE GRIP

Model : WG-01

- * Optional accessory for FORCE GAUGE TEST STAND (FS-1001), it is used to hold the tested material.

Torque, AC/DC Magnetic Precision Milligauss

SERIES



TORQUE METER, 15 Kg-cm

Model : TQ-8800

- * Professional torque meter with separate probe.
- * 15 Kg-cm torque sensor included.
- * 3 units : 15 Kg-cm/13 LB-inch/147.1 N-cm.
- * Peak, Data hold, Zero, Max./ Min., Fast/Slow.
- * RS232/USB computer interface.
- * Size : 180 x 72 x 32 mm. RS-232.



Precision AC/DC MAGNETIC METER PRECISION MILLI GAUSS METER

Model : GU-3001

- * Precision magnetic measurement, use the high sensitivity gauss sensor, it can detect the magnetic fields as small as less than 1 milligauss.
- * Measurements : mG (milli Gauss), uT (micro Tesla).
- * Wide measure range : $\pm 3,000$ milligauss.
- * DC/AC magnetic measurements.
- * Resolutions : 0.1 mG/1 mG, 0.01 uT/0.1 uT.
- * Sensor : High sensitivity gauss sensor.
- * Data hold. Record (Max., Min.).
- * RS232/USB computer interface.
- * 1.5 V battery (UM-4/AAA) x 6 PCs or DC 9V adapter.
- * Optional USB cable, USB-01.
- * Optional acquisition softwares, SW-U801-WIN, SW-E802.
- * Wide applications for industrial, mechanical, material, electrical, laboratory field to check the material's contained magnetic field value.



Wide range, general purpose AC/DC MAGNETIC METER

Model : MG-3002

- * Wide range, general purpose magnetic measurement.
- * Units : G (Gauss), mT (milli Tesla).
- * DC/AC magnetic measurements.
- * DC Range : 300.00 mT/3000.0 mT.
- * AC Range : 150.00 mT/1500.0 mT.
- * Resolutions : 0.01 mT/0.1 mT, 0.1 G/1 G.
- * DC polarity : N/S.
- * Sensor : Hall sensor.
- * Zero, Data hold. Record (Max., Min.).
- * RS232/USB computer interface.
- * DC 9V battery (006 P) x 1 PC or DC 9V adapter.
- * Optional USB cable, USB-01.
- * Optional acquisition softwares, SW-U801-WIN, SW-E802.



heavy duty, professional Torque Wrench, 1000 Kg-cm

Model : TQ-8803

- * Range : 1000 Kgf-cm, 9,807 Newton-cm.
- * Units : Kgf-cm, lbf-in, lbf-ft, N-cm, N-m.
- * Auto data hold function to freeze the last measurement reading.
- * Size of square drive : 3/8 inch square.
- * LCD display with backlight, easy readout.
- * Auto shut off circuit to save battery life,
- * Metallic heavy duty & compact housing case.
- * Soft carrying case is included.
- * Size : 450 mm x 55 mm x 37 mm.

5 in 1 SERIES
Green power



5 in 1 METER

Model : LM-8102

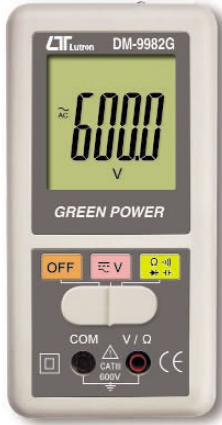
- * Sound level meter : 30 to 130 dB, auto range.
- * Humidity : 10 to 95 %RH, Temp.. (°C/°F).
- * Anemometer : 0.4 to 30 m/s, Temp.. (°C/°F).
- * Light : 0 to 20,000 Lux, 0 to 1,860 Ft-cd, auto range.
- * Type K Thermometer : -100 to 1300 °C, °C/°F.
- * Sound level meters meets IEC 61672 TYPE 2.
- * Data hold, Record (Max., Min.), RS232/USB.
- * 5 functions, all in one.



4 in 1 METER

Model : LM-8100

- * Humidity : 10 to 95 %RH, Temp.. (°C/°F).
- * Anemometer : 0.4 to 30 m/s, Temp.. (°C/°F).
- * Light : 0 to 20,000 Lux, 0 to 1,860 Ft-cd, auto range.
- * Type K Thermometer : -100 to 1300 °C, °C/°F.
- * Data hold, Record (Max., Min.), RS232/USB.

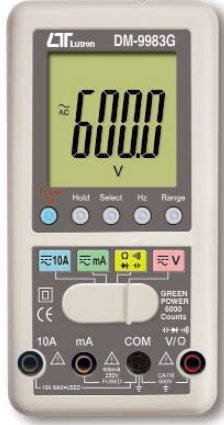


Smart Green Power

Green power, hybrid power SMART MULTIMETER

Model : DM-9982G

- * Power supply from generator (battery is no need) or battery power.
- * Smart operation, 2 intelligent functions : V, Ω.
- * V : ACV, DCV measurement automatically.
- * Ω : Ohm, Diode, Continuity, Cap. automatically.
- * Large LCD display, 6,000 counts.
- * CAT III-600V.
- * Auto power off.
- * DIY version, easy operation.
- * Size : 151 x 78 x 43 mm.
- * Patented.



Smart Green Power

Green power, hybrid power SMART MULTIMETER

Model : DM-9983G

- * Power supply from generator (battery is no need) or battery power.
- * Smart operation, 3 intelligent functions : V, Ω, A.
- * V : ACV, DCV measurement automatically.
- * Ω : Ohm, Diode, Continuity, Cap. automatically.
- * A : DCA, ACA, 10A/60mA/600mA.
- * Function Keys : Hold / Select / Hz / Range.
- * Large LCD display, 6,000 counts.
- * CAT III-600V, Auto power off.
- * Size : 151 x 78 x 43 mm.
- * Patented.



Green Power

Green power, Hybrid power GREEN SOUND LEVEL METER

Model : SL-4113G

- * Power supply from generator (battery is no need) or DC 9V battery.
- * Meet IEC61672 class 2.
- * 30 to 130 dB, auto range.
- * A/C weighting, fast/slow time weighting, Peak hold, Data hold, Record, RS232/USB.



Smart Green Power



Green power, Hybrid power CLAMP METER, smart

Model : CM-9942G

- * Power supply from generator (battery is no need) or battery power.
- * Smart operation, functions : A, V, Ω.
- * V : ACV, DCV.
- * Ω : Resistance , Diode, Continuity, Capacitance.
- * A : ACA (600A, 1000A) with auto range.
- * Function keys : Hz, Hold.
- * Heavy duty, CAT III-600V.
- * Patented.



CO₂ METER, + Humidity, Temperature.

Model : GCH-2018

- * CO₂ range : 0 to 4,000 ppm.
- * CO₂ sensor : NDIR, long term reliability.
- * CO₂ with alarm setting.
- * Functions : CO₂ (Carbon dioxide) Humidity, Dew point, Temperature.
- * Data hold, Record (Max., Min.).
- * RS232/USB computer interface .



CO₂ METER, Temperature.

Model : GC-2028

- * CO₂ range : 0 to 4,000 ppm.
- * CO₂ sensor : NDIR, long term reliability.
- * CO₂ with alarm setting.
- * Functions : CO₂ (Carbon dioxide) Dew point, Temperature.
- * Data hold, Record (Max., Min.).
- * RS232/USB computer interface .



SD Card real time data logger CO₂/HUMIDITY/TEMP. DATA RECORDER

Model : MCH-383SD

- * Recorder with real time data logger, save the measuring data along the time information (year, month, date, hour, minute, second) into the SD memory card and can be downloaded to the Excel, extra software is not need.
- * CO₂ range : 0 to 4000 ppm, max. 6000 ppm typically.
- * Humidity : 10 to 90 %RH.
- * Temperature : 0 to 50.0 °C, °C/°F.
- * Show CO₂, humidity and temperature values in the same LCD.
- * Large LCD display, easy readout.
- * Power supply from DC 9V adapter in, power adapter is included.
- Also need DC 1.5V (UM-4/AAA) battery x 6 PCs for clock power supply.
- * RS232/USB computer interface.
- * Size : 132 x 80 x 32 mm.



O₂ METER, pen type

Model : PO2-250

- * O₂ (Oxygen in air), Temperature.
- * O₂ range : 0 to 30.0 % x 0.1 %.
- * Temperature. : 0 to 50 °C, °C/°F.
- * Measurement response time : 30 seconds.
- * Pen type, easy operation and carryout.
- * DC 1.5V battery (UM-4/AAA) x 4 PCs.
- * Pen type easy carryout.



CO METER

Model : GCO-2008

- * CO (Carbon monoxide), Temperature.
- * CO range : 0 to 1,000 ppm.
- * Temperature. : 0 to 50 °C, °C/°F.
- * CO response time : 30 second.
- * Data hold Record (Max., Min.).
- * RS232/USB computer interface.
- * 1.5 V battery (UM-4/AAA) x 6 PCs or DC 9V adapter in.



CO METER, pen type

Model : PCO-350

- * CO (Carbon monoxide), Temperature.
- * CO range : 0 to 1,000 ppm.
- * Temperature. : 0 to 50 °C, °C/°F.
- * CO response time : 30 seconds.
- * Data hold.
- * Alarm beeper.
- * DC 1.5V battery (UM-4/AAA) x 4 PCs.
- * Pen type easy carryout.



Clamp Probe
A1, A2, A3
CP-1201



3 phase power analyzer SD card Data recorder 3,000 Amp Flexible current probe

**SD Card real time data recorder, complete set
3 PHASE POWER ANALYZER
Model : DW-6093**

- * Analysis for 3 phase multi-power system, 1P/2W, 1P/3W, 3P/3W, 3P/4W.
- * 3 current probes (CP-1201) are included, if change the current probes, the calibration procedures are not necessary.
- * Current probe input signal/ranges with selection :
Input signal (ACV) : 200 mV/300 mV/500 mV/1 V/2 V/3 V.
Ranges (ACA) : 20 A/200 A/2000 A/30 A/300 A/3000 A /6000 A.
- * Meter can cooperate with other universal current probes.
- * Complete set with 4 PCs Test Leads, 4 PCs Alligator clips, 3 PCs Clamp Probe (CP-1201), AC to DC 9V adapter, 4 G SD memory card and Carrying bag.
- * Voltage & Current are the True RMS value.
- * True Power (KW, MW, GW).
- * Apparent Power (KVA, MVA, GVA).
- * Reactive Power (KVAR, MVAR, GVAR).
- * Watt-Hour (WH, SH, QH, PFH).
- * Power Factor (PF), Phase Angle (Degree).
- * Voltage range : 10 to 600 ACV.
- * Current range : 0.2 to 1200 ACA, CP-1201.
- * Programmable CT ratio (1 to 600) and PT ratio (1 to 1000).
- * ACV input impedance is 10 Mega ohms.
- * Safety Standard : IEC 1010, CAT III 600V.
- * Built-in clock and Calendar, real time data record with SD memory card , sampling time can be set from 2 to 7200 seconds. Just slot the SD card into the computer, all the measured values with the time information (year, month, data, hour, minute, second) can be downloaded to the Excel directly, then user can make the further data analysis by himself.
- * Powered by AA (UM-3) DC 1.5 V x 8 PCs batteries (Alkaline type) or DC 9V adapter.
- * Computer data output, can cooperate with optional USB Cable/USB-01, RS232 cable/U PCB-02 and Data Acquisition softwares, SW-U811, SW-E802.
- * Optional current probes : CP-1201, CP-200, CP-2000, CP-2011, CP-3000, CP-3001, CP-6001.
- * User can order the meter only (without the current probes) with the special request if intend to cooperate their own current probes.
- * Patented.



CP-3000-R red connector CP-3000-Y yellow connector CP-3000-B blue connector

Flexible 3000 Amp current probe

Model : CP-3000-R (red connector)

Model : CP-3000-Y (yellow connector)

Model : CP-3000-B (blue connector)

- * Range : 30 A/300 A/3000 A.
- * Output sensitivity : 100 mV/A, 10 mV/A, 1 mV/A.
- * Output voltage : 3 ACV (30 A, 300 A, 3000 A).
- * Flexible probe length : 600 mm (23.6 inch).
Flexible probe diameter : 15 mm.
- * Optional current probes for DW-6093, DW-6095.
- * When changing the new probe, the calibration procedures are not necessary to be executed.
- * Output cable : 4 meter wire, use the banana plugs, durable and safety.
- * Power supply is from the meter (DW-6093, DW-6095), battery is not necessary.
- * CP-3000-R, CP-3000-Y, CP-3000-B :
Function is same with one another, but for identification purpose, the connector color is different.

Power Analyzer **SERIES** Caliper Pressure Transducer



POWER ANALYZER, Bench type

Model : DW-6090A

- * Multi-functions : WATT, VA, Whr, COS θ (Power factor), ACV, ACA, DCV, DCA, Hz, ohm.
- * True AC power (Watt) & apparent power (VA) measurement.
- * True rms measurement for ACV, ACA.
- * 0.1 W resolution (< 1000 W), high precision an high resolution in the low watt range, good performance for low power LED lamp watt measurement.
- * Auto range.
- * Accept different kinds current input signal : direct input, inductive clamp probe or CT (current transformer).
- * Peak hold & data hold.
- * Watt & VA measurement with Hi, low alarm setting.
- * RS-232/USB computer interface.
- * Optional USB cable, USB-01.
- * Optional data acquisition software, SW-U801-WIN.
- * Optional EXCEL data acquisition software, SW-E802.
- * Power supply : DC 1.5V AA (UM-3) battery x 6 PCs or AC to DC adapter (optional).



PRESSURE TRANSDUCER, 4 to 20 mA

Model : PS93MA-xxBAR

- * 6 models : 2/5/10/20/50/100/400 bar.
- * Zero pressure - 4 mA, Full scale - 20mA.
- * Power supply : DC 9V to 30V.
- * 4 wires : 2 wires for power, two wires for signal.

PRESSURE TRANSDUCER, 0 to DC 100mV

Model : PS93DV-xxBAR

- * 6 models : 2/5/10/20/50/100/400 bar.
- * Zero pressure - 0 DCV, Full scale - 100 mV.
- * Power supply : DC 9V to 30V.
- * 4 wires : 2 wires for power, two wires for signal.



DIGITAL CALIPER

Model : DC-515

- * 150 mm x 0.01 mm, 6 inch x 0.0005".
- * mm/inch select, zero button.
- * 1.5 V silver oxide battery, long life.
- * Size : 235 x 75 x 15 mm.

Scale, Balance

SERIES

0.01 g



DIGITAL SCALE, 500 g x 0.1 g

Model : GM-500

- * LCD display, Tare, Load cell transducer.
- * 6 x 1.5 V UM-3 batteries or AC adapter.
- * Cabinet size : 240 x 185 x 50 mm.
- * Platform size : Round, 120 mm Dia..
- * RS232/USB computer interface.
- * Optional USB cable, USB-01.
- * Optional counting software, SCALE-U002.



600 g x 0.01 g, high precision DIGITAL BALANCE

Model : GM-610P

- * High precision balance.
- * Capacity : 600 g x 0.01 g.
- * Units : gram, oz.
- * Auto self-calibration, counting function.
- * RS-232/USB computer interface.
- * 6 x 1.5V UM-3 batteries or AC adapter.
- * Platform size : round, 120 mm Dia..
- * Optional data Acquisition softwares, SW-U801-WIN, SW-E802.
- * Optional USB cable, USB-01.

Model : GM-300P, 300 g x 0.01 g

Model : GM-600P, 600 g x 0.02 g

Model : GM-1500P, 1500 g x 0.05



600 g DIGITAL SCALE

Model : GM-600G

- * Capacity : 600 g x 0.1 g
- * Units : Gram, OZ, PCs.
- * LCD display, automatic backlight.
- * Platform size : 195 x 150 x 40 mm .
- * Cabinet Size : 150 x 145 x 48 mm.
- * With counting function, PCs measurement.
- * Compact size.
- * Battery power : 1.5 V (UM3) x 6 PCs.



DIGITAL SCALE, 5000 g x 1 g

Model : GM-5000

- * 5000 g x 1 g, 176.00 oz X 0.05 oz.
- * LCD display, Tare, Load cell transducer.
- * 6 x 1.5 V UM-3 batteries or AC adapter.
- * Cabinet size : 240 x 185 x 50 mm.
- * Platform size : 185 x 185 mm.
- * Optional USB cable, USB-01.
- * Optional counting software, SCALE-U002.



3 Kg DIGITAL SCALE

Model : GM-3KG

- * Capacity : 3000 g x 1 g.
- * Units : Gram, Pound, PCs.
- * LCD display, automatic backlight.
- * Platform size : 195 x 150 x 40 mm .
- * Cabinet Size : 150 x 145 x 48 mm.
- * Self calibration with memorize.
- * With counting function, PCs measurement.
- * Compact size.
- * Battery power : 1.5 V (UM3) x 6 PCs.

100kg, 150 kg



100 kg BENCH SCALE, heavy duty

Model : GB-100KG

- * Heavy duty bench platform scale, separate indicator.
- * 100 kg x 0.05 kg, 220 lb x 0.1 lb.
- * LED display, Load cell transducer.
- * 6 x 1.5V UM-3 batteries or AC adapter.
- * Platform size : 450 x 340 mm.

150 kg BENCH SCALE, heavy duty

Model : GB-150KG

- * 150 kg x 0.1kg, 330 lb x 0.2 lb.

Power Adapter, Test Lead Interface Cable, Alligator clips



AL-05

TL-88

HEAVY DUTY TEST LEAD

Model : TL-339R

- * CATIII-1000V approval.
- * For EUROPE usage.

HEAVY DUTY TEST LEAD

Model : TL-88

- * CATIII-1000V.
- * High quality test lead with silicon rubber.

HEAVY DUTY ALLIGATORS

Model : AL-05

- * Heavy duty alligators for TL-88.
- * CATII-1000V approval, black & red suitable for banana plug and wire direct connection.

RS232 CABLE

Model : USB-01

- * The computer interface cable, one side is the ear phone plug that is connected to the meter's RS232 output, the other side is the USB plug that is connected the computer's USB terminal.
- * Ship along with the driver software.
- * Available for all the LUTRON instruments (built-in the RS232 interface), then the meter will have the USB interface.



USB-01

UPCB-01

UPCB-02

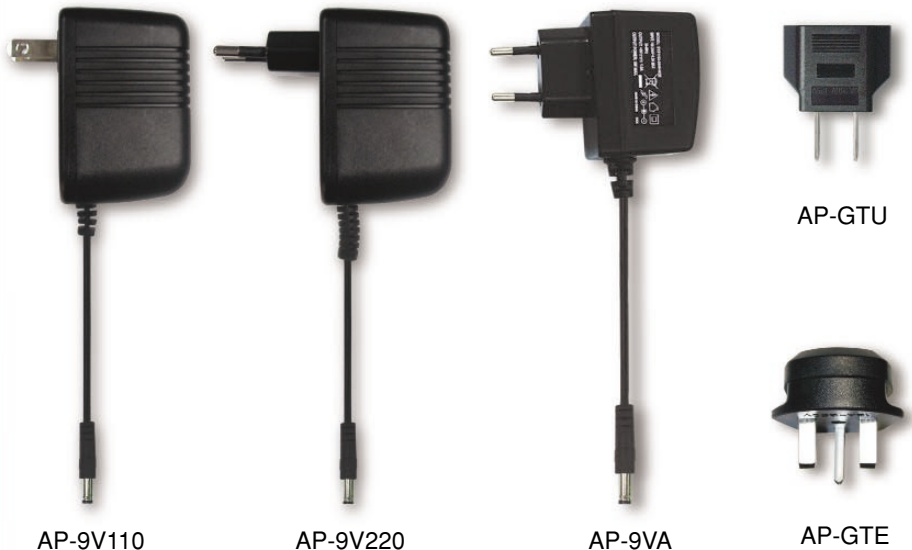
USB POWER TO DC 9V CONVERTER

Model : USBP-59

- * DC 5V to DC 9V converter.
- * Output voltage : DC 9V.
- * Input voltage : DC 5V.
- * Output current : DC 800 mA max..
- * Input current : Input current value is the output current value x 2.
- * Input plug : standard USB plug.
- * Output plug : 3.5 mm ear phone plug.
- * Cable length : 1.8 meters.



- * Output plug : ear phone plug, available for all LUTRON meters if it is built-in the DC 9V power socket.
- * The external power of LUTRON meters is DC 9V (via ear phone socket). In many applications, the user needs the meter's external power source from the computer USB socket or from the normal USB power adapter. The USBP-59 is the convenient power converter to meet the above applications.



AP-9V110

AP-9V220

AP-9VA

AP-GTU

AP-GTE

DC 9V POWER ADAPTER

Model : AP-9V110

- * Input voltage : 110/120 ACV, 50/60 Hz.
- * Output voltage : DC 9V/0.8 Amp. rating.
- * Output plug : round 2.5 mm dia..
- * Linear transformer type.

DC 9V POWER ADAPTER

Model : AP-9V220

- * Input voltage : 220/230 ACV, 50/60 Hz.
- * Output voltage : DC 9V/0.8 Amp. rating.
- * Output plug : round 2.5 mm dia..
- * Linear transformer type.

DC 9V POWER ADAPTER

Model : AP-9VA

- * Input voltage : 100 to 240 ACV, 50/60 Hz.
- * Output voltage : Regulation DC 9V/1 Amp. rating max.
- * Output plug : round 2.5 mm dia. plug.

PLUG CONVERTER

Model : AP-GTU

- * Convert the input plug of AP-9VA from the Germany type to USA type.

PLUG CONVERTER

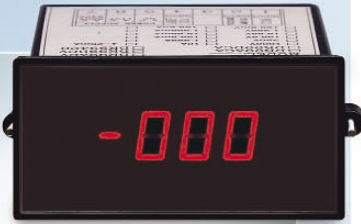
Model : AP-GTE

- * Convert the input plug of AP-9V220 from the Germany type to UK (England) type.

RS232 CABLE

Model : UPCB-01, UPCB-02

- * The computer interface cable, one side is the ear phone plug connected to the meter's RS232 output, the other side is the D9 plug connected the computer's COM terminal.
- * UPCB-01 is the direct interface cable.
- * UPCB-02 is the isolated (photo couple) interface cable.
- * Available for all the LUTRON instruments (built-in the RS232 interface)



PANEL METER(DCV), 3 1/2 digits

Model : DR-99DCV

- * 199.9 DCmV - 600 DCV, 5 ranges.
- * Range can be adjusted by jumper wire.
- * 110/220/230 ACV power, 14 mm red LED.
- * DIN size : 96 x 48 mm, Depth : 104 mm.



PANEL METER(ACV), 3 1/2 digits

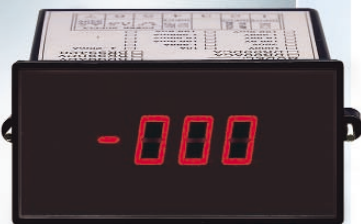
Model : DR-99ACV

- * 199.9 ACmV - 600 ACV, 5 ranges.
- * Range can be adjusted by jumper wire.
- * 110/220/230 ACV power, 14 mm red LED.
- * DIN size : 96 x 48 mm, Depth : 104 mm.

PANEL METER(DCA), 3 1/2 digits

Model : DR-99DCA

- * 199.9 DC μ A - 10 DCA, 6 ranges.
- * Range can be adjusted by jumper wire.
- * 110/220/230 ACV power, 14 mm red LED.
- * DIN size : 96 x 48 mm, Depth : 104 mm.



PANEL METER(ACA), 3 1/2 digits

Model : DR-99ACA

- * 199.9 AC μ A to 10 ACA, 6 ranges.
- * Range can be adjusted by jumper wire.
- * 110/220/230 ACV power, 14 mm red LED.
- * DIN size : 96 x 48 mm, Depth : 104 mm.

PANEL TACHOMETER

Model : DT-2240D

- * 5 to 100,000 RPM (x 0.1 RPM, <1,000 RPM).
- * Accuracy : \pm (0.05% + 1 d).
- * 110/220/230 ACV power, 14 mm red LED.
- * DIN size : 96 x 48 mm, Depth : 104 mm.



PROXIMITY SENSOR for DT-2240D

Model : PX-01



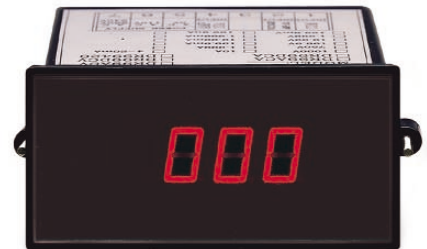
PHOTO SENSOR (Photo Interrupter) for DT-2240D

Model : PI-06

PANEL METER(Hz)

Model : FC-422D

- * 0.5 to 500.0 Hz (x 0.01 Hz, <100 Hz).
- * Input voltage : 5 to 250 ACV.
- * 110/220/230 ACV power, 14 mm red LED.
- * DIN size : 96 x 48 mm, Depth : 104 mm.



TEMPERATURE CONTROLLER/MONITOR

Model : PTM-9957

- * Temp. sensor : type K/J/T/E/R/S thermocouple, Pt 100 ohm.
- * Control setting, Hi/Lo alarm setting.
- * Control relay output, alarm relay output.
- * Temp. probes are optional.
- * 96 x 48 mm DIN size, RS-232/USB interface.



VOLT METER MODULE

Model : DP-30

- * Display : 13 mm LCD.
- * Range : \pm 199.9 mV, 3 1/2 digits.
- * Power supply : DC 9V.
- * Size : 71 x 46 mm, Depth : 21 mm.



4-20 mA Controller/Alarm/Indicator

Model : CT-2012

- * Input : 4-20 mA DC, linear.
- * User can default the desired display value between -1999 to 9999 (decimal point can be selected to DP1, DP2, DP3) and all the preset data will be saved into the memory circuit permanently.
- * When CT-2012 cooperates LUTRON's 4 to 20 mA transmitters, whole system will become the high performance Controller/Alarm/Indicator for following measuring functions : Humidity, Light, pH, Dissolved Oxygen, Conductivity, Vibration, Pressure, Sound, Temperature, RPM, Hz, Load cell (Weight, Force), Potential (Angle, Level). ACV, ACA, DCV, DCA, WATT....
- * Control output : 2 points (COM, NO).
- * Alarm output : 2 points (COM, NO).
- * DC voltage power supply output.
- * RS232/USB computer interface.
- * Power : 90 ACV to 260 ACV, 50/60 Hz.
- * DIN size : 96 x 48 mm. Depth : 107 mm.



PX-01 (optional)



PI-06 (optional)



Humidity probe (included)

RPM CONTROLLER/MONITOR

Model : PDT-2250

- * 5 to 100,000 RPM (0.1rpm, <1,000 rpm).
- * Control setting, Hi/Lo alarm setting.
- * Control relay output, alarm relay output.
- * Power : 90 ACV to 260 ACV, 50/60 Hz.
- * RS-232/USB computer interface.
- * DIN size : 96 x 48 mm. Depth : 107 mm.
- * Optional proximity sensor PX-01, PX-02.
- * Optional photo sensor PI-06.



RS232 CONTROLLER/MONITOR

Model : PRS-2321

- * Cooperate the LUTRON instruments (built-in the RS232 interface), the panel meter will show all the measuring value.
- * U1 control setting, U2 control setting.
- * U1 control relay output, U2 control relay output.
- * U1, U2, U3 display.
- * Power : 90 ACV to 260 ACV, 50/60 Hz.
- * RS-232/USB computer interface.
- * Interface cable UPCB-03 is included.
- * DIN size : 96 x 48 mm. Depth : 107 mm.

PANEL HUMIDITY/TEMP. METER

Model : PHT-3109

- * Humidity : 10 to 95 %RH.
- * Temperature : 0 to 60 °C.
- * Resolution : 0.1 %RH, 0.1 degree.
- * Humidity control setting, Temp. control setting.
- * Humidity control relay output, Temp. control relay output.
- * Power : 90 ACV to 260 ACV, 50/60 Hz.
- * RS-232/USB computer interface.
- * DIN size : 96 x 48 mm. Depth : 107 mm.
- * Accessory included : Humidity/Temp. probe.



pH electrode, PE-21 (Optional)

pH CONTROLLER/MONITOR

Model : PPH-2108

- * 0 to 14 pH x 0.01 pH.
- * ATC (automatic temperature compensation).
- * pH control setting, Temp. control setting.
- * pH control relay output, Temp. control relay output.
- * Power : 90 ACV to 260 ACV, 50/60 Hz.
- * RS-232/USB computer interface.
- * DIN size : 96 x 48 mm. Depth : 107 mm.
- * Optional pH electrodes, ATC probe.

Transmitter SERIES



ANEMOMETER TRANSMITTER

Model : TR-AMT1A4

- * Range : 30 m/s.
- * Output : 4 to 20 mA, DC.
- * Power : 90-260 ACV.



pH TRANSMITTER

Model : TR-PHT1A4

- * Range : 0 to 14 pH.
- * Output : 4 to 20 mA, DC.
- * Power : 90-260 ACV.

PE-21(optional)



SOUND TRANSMITTER

Model : TR-SLT1A4

- * Ranges : 30 to 130 dB, 3 ranges.
- * Output : 4 to 20 mA, DC.
- * Power : 90-260 ACV.



LIGHT TRANSMITTER

Model : TR-LXT1A4

- * Ranges : 2,000/20,000/50,000 Lux.
- * Output : 4 to 20 mA, DC.
- * Power : 90-260 ACV.



DISSOLVED OXYGEN TRANSMITTER

Model : TR-DOT1A4

- * Range : 0 to 20 mg/L.
- * Output : 4 to 20 mA, DC.
- * Power : 90-260 ACV.



VIBRATION TRANSMITTER

Model : TR-VBT1A4

- * Ranges : 200 m/s², 200 mm/s.
- * Output : 4 to 20 mA, DC.
- * Power : 90-260 ACV.



RPM TRANSMITTER

Model : TR-RPM1A4

- * Ranges : 2,000/20,000 RPM.
- * Output : 4 to 20 mA, DC.
- * Power : 90-260 ACV.

PX-01
(optional)



TEMP. (Type K) TRANSMITTER

Model : TR-TMK1A4

- * Range : 0 to 500 °C.
- * Output : 4 to 20 mA, DC.
- * Power : 90-260 ACV.



TEMP. (Pt 100 ohm) TRANSMITTER

Model : TR-TMP1A4

- * Range : -100 to 400 °C.
- * Output : 4 to 20 mA, DC.
- * Power : 90-260 ACV.



TRANSMITTER main body

Connecting with Wires socket (included).



ACV TRANSMITTER

Model : TR-ACV1A4

- * Ranges : 150/300 ACV, isolated.
- * Output : 4 to 20 mA, DC.
- * Power : 90-260 ACV.



ACA TRANSMITTER

Model : TR-ACA1A4

- * Ranges : 1A/5 A, isolated.
- * Output : 4 to 20 mA, DC.
- * Power : 90-260 ACV.



LOAD CELL TRANSMITTER

Model : TR-LDT1A4

- * 1 to 2 mV/V, exciting DC 4V to 12V.
- * Output : 4 to 20 mA, DC.
- * Power : 90-260 ACV.

(Optional)



2000A DC/AC CLAMP TRANSMITTER

Model : TR-CLP1A4

- * Ranges : 200/2,000 A, DC/AC.
- * Output : 4 to 20 mA, DC.
- * Clamp probe is included.
- * Power : 90-260 ACV.

(optional)



2 Wires Transmitter

SERIES

2 WIRES PRESSURE TRANSMITTER

Model : TR-PS2W-xxBAR

- * Range : 2, 5, 10, 20, 50, 100 or 400 BAR.
- * Output : 4 to 20 mA DC.
4 mA = 0 pressure
20 mA = full scale pressure
- * 2 wires, both for signal and power supply.
- * Precision ceramic type pressure sensor.
- * External zero and span adjustments.
- * Output with socket, easy replacement.
- * Allow high cable load resistance, transmitter can be installed far away from the controller/incator.
- * Protection for the reverse wires connecting.
- * TR-PS2W can cooperate the " 4-20 mA Controller/Alarm/Indicator " CT-2012, then become a pressure controller and the indicating system. The user can control and monitor the pressure value remotely.



CT-2012 (Pressure)

2 WIRES HUMIDITY TRANSMITTER

Model : TR-RH2W

- * Range : 10 %RH to 95 %RH.
- * Output : 4 to 20 mA DC.
5.6 mA = 10 %RH, 12 mA = 50 %RH
16 mA = 75 %RH, 19 mA = 95 %RH
- * 2 wires, both for signal and power supply.
- * Precision capacitance type humidity sensor.
- * External zero and span adjustments.
- * Allow high cable load resistance, transmitter can be installed far away from the controller/incator.
- * Protection for the reverse wires connecting.
- * TR-RH2W can cooperate the " 4-20 mA Controller/Alarm/Indicator " CT-2012, then become a humidity controller and the indicating system. The user can control and monitor the humidity value remotely.



CT-2012 (Humidity)



GSM Controller SERIES



To 8 channels
RS232 input



GSM CONTROLLER, 900/1800 MHZ

Model : GSM-889

- * Control/Alarm/Monitor via GSM mobile phone, with no distance limitation.
- * 8 channels RS232 input, 8 relay outputs, 8 switch inputs.
- * 8 channels RS232 input can cooperate full line LUTRON instruments (built-in RS232 output), it will display the real value with the measuring unit on mobile phone.
- * Analog channel Hi/Lo alarm warning setting.
- * Interface cable (meter to GM-889), Model : GMCB-89.
- * Applications : Intelligent , innovation, wide range, no limitation.
- * 4 bands (850/900/1800/1900 MHz) for American market, Model : GSM-889-4B.



GSM-889

INTERFACE CABLE

Model : GMCB-89

- * The interface cable is to connect the LUTRON RS232 instrument to the GSM controller GSM-889.

LUTRON instruments
with RS232 output

GSM Controller SERIES



GSM CONTROL SYSTEM

Model : GSM-888

- * Control/Alarm/Monitor via GSM mobile phone, with no distance limitation.
- * 8 channels A/D (4 -20 mA), 8 relay outputs, 8 switch inputs.
- * 8 channels A/D , can cooperate full line industrial 4-20 mA transmitters and display the real value and the display unit on mobile phone.
- * Analog channel alarm warning setting.
- * It can default two telephone numbers to receive warning SMS.
- * Features : Intelligent , innovation, wide range, control with no distance limitation.
- * 4 bands (850/900/1800/1900 MHz) for American market, Model : GSM-888-4B.



GSM CONTROL SYSTEM

Model : GSM-840

- * Control/Alarm via GSM mobile phone, with no distance limitation.
- * 8 switch inputs, 4 relay outputs.
- * GSM mobile phone can control the relay output and sense the input switch's status with alarm.
- * It can default two telephone numbers to receive warning SMS.
- * Features : Intelligent , innovation, wide range, control with no distance limitation.
- * 4 bands (850/900/1800/1900 MHz) Model : GSM-840-4B.



DS-121

WIRELESS DETECT SWITCH

Model : DS-121

- * DS-121 is the standard accessory or the optional accessory of GSM-120.
- * Two wireless detect switches (DS-121) are included in each set of GSM-120.
- * User can install the DS-121 on the door or window easily. When the thief invades the house, buzzer will sound and send the SMS alarm message via GSM control system to the mobile.

GSM HOME SECURITY SYSTEM

Model : GSM-120

- * Whole system includes two " Wireless detect switch " (DS-121, included), user can install the DS-121 easily on the door or window, when the thief invades the house, the buzzer will sound and send the SMS warning message via GSM control system to mobile phone.
- * If need more doors (windows) to be installed with the detecting switches, the DS-121 is an optional accessory.
- * Built-in one control relay output, user can control the home electrical appliance via mobile phone.
- * It can default two telephone numbers to receive warning SMS.
- * Applications : Intelligent , innovation, no distance home/office/factory security system.

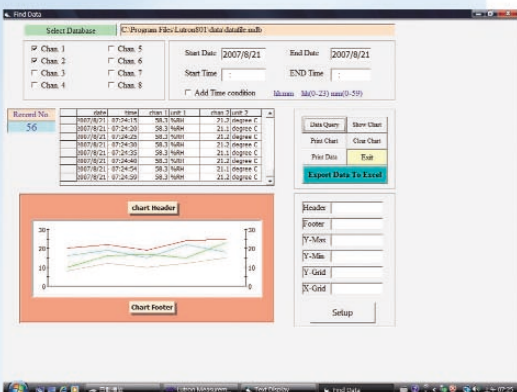
Acquisition software Interface cable



* Text display (SW-U801-WIN)



* Analog display (SW-U801-WIN)

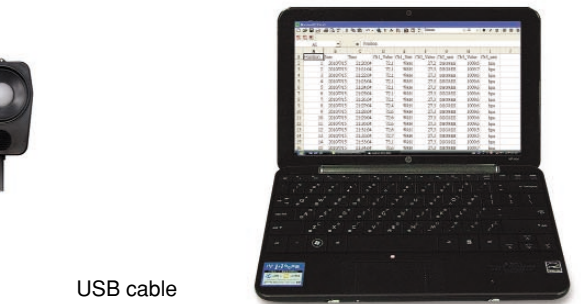


* Data query, Print chart, Print data (SW-U801-WIN)

DATA ACQUISITION SOFTWARE

Model : SW-U801-WIN

- * The multi-display (1/2/4/6/8 displays) powerful Windows program is available for XP, Vista, WIN 7 and WIN 8 can be cooperated with the LUTRON's RS232 instruments. It also provides the functions of data logging system, text display, angular display, chart display, data recorder high/low limit, data query, text report, chart report.. Data file can be download to Excel file, wide intelligent applications.
- * Sampling time can be set from 1 to 3,600 seconds.
- * If SW-U801-WIN cooperates with the RSC-801, then the software can monitor the 8 meters (max.) with the 8 channels' display.



USB cable
USB-01
Computer

Position									
A1	B	C	D	E	F	G	H	I	J
1	Position	Date	Time	Ch1_Value	Ch1_Unit	Ch2_Value	Ch2_Unit	Ch3_Value	Ch3_Unit
2	1	2010/7/15	21:20:04	72.1	%RH	27.2	DEGREE	1009.6	hpa
3	2	2010/7/15	21:21:04	72.1	%RH	27.3	DEGREE	1009.7	hpa
4	3	2010/7/15	21:22:04	72.1	%RH	27.3	DEGREE	1009.6	hpa
5	4	2010/7/15	21:23:04	72.1	%RH	27.3	DEGREE	1009.6	hpa
6	5	2010/7/15	21:24:04	72.1	%RH	27.3	DEGREE	1009.6	hpa
7	6	2010/7/15	21:25:04	72.1	%RH	27.3	DEGREE	1009.6	hpa
8	7	2010/7/15	21:26:04	72.1	%RH	27.3	DEGREE	1009.6	hpa
9	8	2010/7/15	21:27:04	72.4	%RH	27.3	DEGREE	1009.6	hpa
10	9	2010/7/15	21:28:04	72.6	%RH	27.3	DEGREE	1009.6	hpa
11	10	2010/7/15	21:29:04	72.6	%RH	27.3	DEGREE	1009.6	hpa
12	11	2010/7/15	21:30:04	72.6	%RH	27.3	DEGREE	1009.6	hpa
13	12	2010/7/15	21:31:04	72.6	%RH	27.3	DEGREE	1009.5	hpa
14	13	2010/7/15	21:32:04	72.7	%RH	27.3	DEGREE	1009.5	hpa
15	14	2010/7/15	21:33:04	73.1	%RH	27.3	DEGREE	1009.6	hpa
16	15	2010/7/15	21:34:04	72.6	%RH	27.3	DEGREE	1009.7	hpa
17	16	2010/7/15	21:35:04	72.6	%RH	27.3	DEGREE	1009.6	hpa
18	17	2010/7/15	21:36:04	72.6	%RH	27.3	DEGREE	1009.5	hpa
19	18	2010/7/15	21:37:04	72.7	%RH	27.3	DEGREE	1009.6	hpa
20	19	2010/7/15	21:38:04	72.8	%RH	27.3	DEGREE	1009.6	hpa
21	20	2010/7/15	21:39:04	73.1	%RH	27.3	DEGREE	1009.7	hpa
22	21	2010/7/15	21:40:04	73.1	%RH	27.3	DEGREE	1009.7	hpa
23	22	2010/7/15	21:41:04	73.1	%RH	27.3	DEGREE	1009.7	hpa
24	23	2010/7/15	21:42:04	73.1	%RH	27.4	DEGREE	1009.7	hpa
25	24	2010/7/15	21:43:04	73.1	%RH	27.3	DEGREE	1009.6	hpa

EXCEL DATA ACQUISITION SOFTWARE

Model : SW-E802

- In order to log out the measurement data, some professional data logging softwares are required. However, it decreases the data management flexibility. SW-E802 can log out your measurement data on Microsoft Office Excel, which makes you much easier to share, analyze, and manage the measurement results.
- * Microsoft Office Excel installed on PC is required.
 - * Compatible with Microsoft OS Windows XP, Vista, WIN 7 and WIN 8.
 - * With LUTRON RS232 converter RSC-801, SW-E802 can monitor multi-meters with multi-channels, 8 meters with 8 channels in maximum.
 - * Real time data acquisition system. Timeline data can be recorded as year/date/min/sec.
 - * Data sampling time: 1 to 3,600 seconds.
 - * Data can be utilized in Excel with general Excel functions, ex. drawing the data charts

USB CABLE

Model : USB-01

- * The computer interface cable, one side is connected to the meter's RS232 output, the other side is plugged into the USB port of computer

Software SERIES Interface Cable Water resistant bag



8 METERS DATA ACQUISITION SOFTWARE

Model : SW-808

- * The multi-instrument and multi-display (1/2/4/6/8 displays) powerful Windows program is available for WIN 98, XP, Vista which enables you to cooperate it with the LUTRON's RS232 instruments (max. 8 meters). It provides the functions of data logging system (max. 65,000 data), high/low warning, data query. Data file can be converted to Excel file, wide intelligent applications.
- * Sampling time can be set from 1 to 3,600 seconds.



WATER RESISTANT BAG

Model : WP-11

- * Water resistant bag, suitable to pack all LUTRON water quality meters such as pH meters, conductivity meters, dissolved oxygen meters to protect the meters from water (rain) splashes.
- * Material is made from clear PVC.
- * Dust and moisture resistant.
- * Size : 285 cm x 167 mm.



8 to 1 RS232 CONVERTER

Model : RSC-801

- * It can be connected with the LUTRON's RS232 instruments (max. 8 meters), then convert all meters' RS232 signal to one RS232 output.
- * It is the useful tool when applying the software SW-U801-WIN, SW-808, SW-818 (internet/intranet software) to expand the system and accept more meters' inputs.
- * The interface cable between the meter and the RSC-801 is the GMCB-89.



INTERFACE CABLE :

Model : GMCB-89

- * The interface cable is to connect the LUTRON RS232 instrument to the GSM controller GSM-889.
- * The interface cable is to connect the LUTRON RS232 instrument to the RS232 converter RSC-801.

LUTRON instruments
with RS232 output

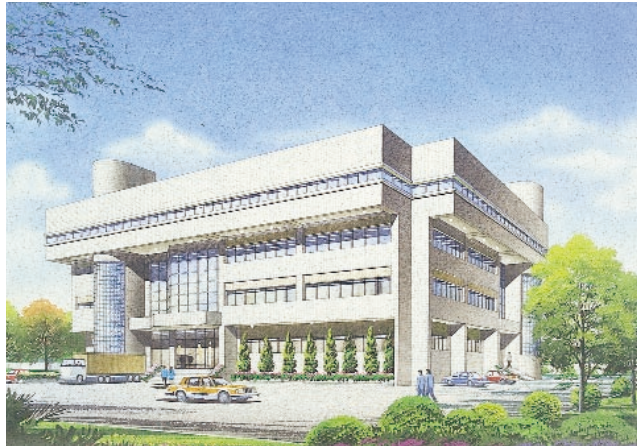
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LUTRON main factory

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