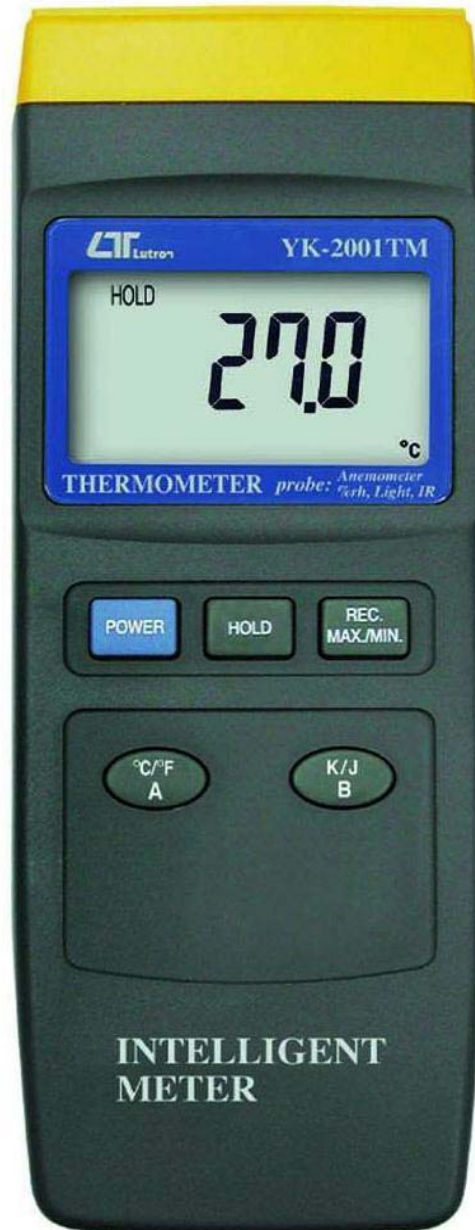# INTELLIGENT THERMOMETER
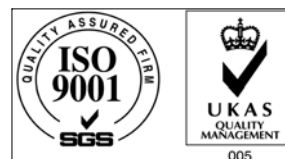
Model : YK-2001TM

ISO-9001, CE, IEC1010

LUTRON ELECTRONIC

The Art of Measurement

INTELLIGENT THERMOMETER
Model: YK-2001TM

FEATURES	
* Master meter is a professional Type K and Type J thermometer.	* Record maximum and minimum readings.
	* Data Hold, ℃ /℉.
* Microprocessor circuit assures maximum possible accuracy during the measurement.	* Auto power off saves battery life. Built-in low battery indicator.
* Optional expandable plugs satisfy your different measurement demands one time on wide velocity (Anemometer), light intensity (Light meter), None contact temperature (IR thermometer), and relative humidity (Humidity meter). Provide you the most convenient way on measuring.	* Heavy duty & compact housing case designed for easy carry out and operation.
	* Instrument with high input impedance avoids measuring error.
	* RS-232 PC computer interface.
* 0.1 degree resolutions for type K and type J thermometer.	* Patent pended in Taiwan, Germany, China, Patent pending in USA.

GENERAL SPECIFICATIONS			
Circuit	Exclusive microcomputer circuit, the software built-in linearity cooperation instead of the traditional hardwarecircuit.	Power off	Auto power off if no buttons are pressed within 10 minutes saves battery life or manual shut off by push button.
Display	Dual function meter's display, 13mm (0.5"), super large LCD display.	Data Output	RS232 PC serial interface.
		Over load indication	------" on the display.
Measurement	Type K & J thermocouple.	Sampling time	Approx. 0.8 second.
Range	Type K : -100.0 to1300.0 ℃	Weighting	250 g/ 0.59 lb.
	Type J : -100.0 to1150.0 ℃	Dimension	195x68x30mm (7.6x2.6x1.2 inch).
Operating Temperature	0 to 50 ℃ (32 to 122 ℉).	Power Supply	* 006P DC 9V, MN1604 (PP3) battery or equivalent.
Operating Humidity	Less than 80% RH.		* Alkaline or heavy duty type.
Intelligent functions and Optional Probes	1. The instrument can plug in the optional Anemometer probe (YK-200PAL), Mini Vane Anemometer probe (YK-200PAS), Metal Vane Anemometer Probe (YK-200PAM), Light probe (YK-200PLX), IR Thermometer probe (YK-200PIR), and Humidity Probe (YK-200PRH) to become a professional Anemometer, Light Meter, IR Thermometer, and Hygrometer. 2. When change a new probe, no calibration procedures are required to be done. 3. Optional expandable probes satisfy your multiple measuring requirements one time with one meter only.		

ELECTRICAL SPECIFICATIONS (23 ± 5℃)		
Measurement	Type K	Type J
Range	-100.0 to 1300.0 ℃, / -148.0 to 2372 ℉.	-100.0 to 1150.0 ℃, / -148.0 to 2102 ℉.
Resolution	0.1 ℃/ 0.1 ℉.	0.1 ℃/ 0.1 ℉.
Accuracy	± (0.2 % + 0 .5 ℃), ± (0.2 % + 1 ℉).	± (0.2 % + 0 .5 ℃), ± (0.2 % + 1 ℉).

OPTIONAL TEMPERATURE PROBE & OTHER ACCESSORIES			
Anemometer Probe YK-200PAL	0.4 to 25.0 m/s m/s, km/h, mile/h, knots, ft/min. ℃, ℉.	Thermocouple TP-01, TP02A, TP03, TP-04	TP-01 : Naked bead TP-02 : General purpose TP-03 : High temperature TP-04 : Surface probe.
Mini Vane Anemometer Probe YK-200PAS	0.8 to 12.0 m/s m/s, km/h, mile/h, knots, ft/min. ℃, ℉.	RS232 cable, UPCB-02	Interface cable for connecting computer (COM port).
Metal Vane Anemometer Probe YK-200PAM	0.5 to 40.0 m/s m/s, km/h, mile/h, knots, ft/min. ℃, ℉.	USB cable, USB-01	Interface cable for connecting computer (USB port).
		SW-U801-WIN	Software for data logging.
Light Probe YK-200PLX	2,000/20,000/50,000 Lux Lux, Feet-candle.	Data Logger DL-9601A	Real time data logger, memorize 7999 set data, sampling time preset from 1 sec to 9 hours, battery power.
IR Temp. Probe YK-200PIR	-10 to 300 ℃, / 14 to 572 ℉ ℃, ℉.		
Humidity probe YK-200PRH	10% to 95% RH. % RH, ℃, ℉.	CA-06	Carrying Case (suitcase type)

* Appearance and specifications listed in this brochure are subject to change without notice.   0607-TK2001TM