

*+ type K/J thermometer*

# HUMIDITY/ANEMOMETER

Model : AM-4205A

ISO-9001, CE, IEC1010



**Lutron**

**LUTRON ELECTRONIC**



**The Art of Measurement**

**+ type K/J thermometer, RS232**  
**ANEMOMETER/HUMIDITY METER**  
**Model : AM-4205A**

FEATURES	
* Anemometer, Humidity/Temp. and type K/J thermometer meter are combined into one meter, intelligent design.	* The portable anemometer provides fast, accurate readings, with digital readability and the convenience of a remote sensor separately.
* Microprocessor circuit assures maximum possible accuracy, provides special functions and features.	* Multi-functions for air flow measurement: m/s, km/h, ft/min, knots, mile/h.
* Super large LCD display, easy readout.	* Build in temperature °C, °F measurement.
* Dual function meter's display.	* Thermistor sensor for Temp. measurement, fast response time.
* Low-friction ball vane wheels is accurate in both high & low velocities for anemometer.	* Used the durable, long-lasting components.
* Thin-film capacitance sensor for humidity measurement, high precision, fast response.	* Heavy duty & compact housing case.
* Records Maximum & Minimum readings with recall.	* Deluxe hard carrying case, easy carryout & storage.
* Data hold.	* Wide applications : To check air conditioning & heating systems, measure air velocities, wind speeds, humidity temperature...etc.
* Auto shut off saves battery life.	
* RS 232 PC serial interface.	

GENERAL SPECIFICATIONS			
Circuit	Custom one-chip of microprocessor LSI circuit.	Sampling Time	Approx. 0.8 sec.
Display	* 13 mm ( 0.5" ) Super large LCD display.	Memory Recall	Records Maximum & Minimum readings with recall.
	* Dual function meter's display.	Power off	Auto shut off saves battery life or manual off by push button.
Measurement	<i>Anemometer :</i> m/s ( meters per second ) km/h ( kilometers per hour ) ft/min ( feet/per minute ) knots ( nautical miles per hour ) mile/h ( miles per hour ) Temperature - °C, °F.  <i>Humidity meter :</i> R.H. ( Relative Humidity ) Temperature - °C, °F.  <i>Type k thermometer :</i> -199 °C to 1300.0 °C -327.8 °F to 2372.0 °F	Data Output	RS 232 PC serial interface.
		Operating Temperature	0 °C to 50 °C ( 32 °F to 122 °F ).
		Operating Humidity	Less than 80% RH.
		Power Supply	006P DC 9V battery (heavy duty type).
		Power Consumption	Approx. DC 8.3 mA.
		Weight	350 g/0.77 LB, main instrument.
Sensor Structure	<i>Anemometer :</i> Air velocity : Conventional twisted van arm and low friction ball bearing design. Temperature : Precision thermistor.  <i>Humidity meter :</i> Humidity : High precision thin-film capacitance sensor. Temperature : Precision thermistor.  <i>Type K/J thermometer :</i> Thermocouple probe.	Dimension	<i>Main instrument :</i> 180x72x32 mm (7.1x2.8x1.3 inch).  <i>Anemometer probe :</i> Round, 72 mm Dia.  <i>Humidity Probe :</i> Round 26 mm Dia. x 160 mm.
		Accessories Included	Instruction manual..... 1 PC. Anemometer probe..... 1 PC. Humidity Probe..... 1 PC. Carrying case..... 1 PC.
		Optional Accessories	33 % RH CALIBRATION REF. CAPSULES, RHA-33 75 % RH CALIBRATION REF. CAPSULES, RHA-75 Type k thermocouple Probe : TP-01, TP-02A, TP-03, TP-04 RS232 cable, UPCC-01 USB cable, USB-01 Data Acquisition software, SW-U801-WIN
Data hold	To freeze the display reading on the LCD display.		

ELECTRICAL SPECIFICATIONS for ANEMOMETER (23 ± 5°C)			
Measurement	Range	Resolution	Accuracy
m/s	0.4 - 25.0 m/s	0.1 m/s	± ( 2 % + 2 d )
km/h	1.4 - 90.0 km/h	0.1 km/h	
mile/h	0.9 - 55.9 mile/h	0.1 mile/h	
knots	0.8 - 48.6 knots	0.1 knots	
ft/min		1 ft/min	± ( 2 % + 20 ft/min )
Temperature ( °C )	0 °C to 50 °C	0.1 °C	± 0.8 °C
Temperature ( °F )	32 °F to 122 °F	0.1 °F	± 1.5 °F
<i>Note:</i> m/s - meters per second      km/h - kilometers per hour ft/min - feet/per minute      knots - nautical miles per hour mile/h - miles per hour      (international knot)			

ELECTRICAL SPECIFICATIONS for HUMIDITY METER		
Humidity	Range	10 % to 95 % R.H.
	Resolution	0.1 % R.H.
	Accuracy(23± 5 °C) (after calibration)	70 % R.H. - ± ( 3 % reading + 1 % R.H.) < 70 % R.H. - ± 3 % R.H.
Temperature	Range	0 °C to 50 °C, 32 °F to 122 °F.
	Resolution	0.1 degree.
	Accuracy	°C - ± 0.8 °C. °F - ± 1.5 °F.

ELECTRICAL SPECIFICATIONS for TYPE K/J THERMOMETER			
Sensor type	Resolution	Range	Accuracy
Type K	0.1 °C	-50.0 to 1300.0 °C	± ( 0.4 % + 0.8 °C )
		-50.1 to -199.9 °C	± ( 0.4 % + 1 °C )
	0.1 °F	-58.0 to 2372.0 °F	± ( 0.4 % + 1.5 °F )
		-58.1 to -327.8 °F	± ( 0.4 % + 1.8 °F )
Type J	0.1 °C	-50.0 to 1100.0 °C	± ( 0.4 % + 0.8 °C )
		-50.1 to -199.9 °C	± ( 0.4 % + 1 °C )
	0.1 °F	-58.0 to 2012.0 °F	± ( 0.4 % + 1.5 °F )
		-58.1 to -327.8 °F	± ( 0.4 % + 1.8 °F )

\* Accuracy value is specified for the meter only.  
 \* Temp. probe ( Type K, TP-01 TP-02A, TP-03, TP-04 ) is the optional accessories.  
 \* Appearance and specifications listed in this brochure are subject to change without notice.