

+ type K/J thermometer

# HUMIDITY/ANEMOMETER

**Model : AM-4205A**

*ISO-9001, CE, IEC1010*

*www.yalab.com.tw 02-2389-0101*



**Lutron**

[www.YaLAB.com.tw](http://www.YaLAB.com.tw)

*The Art of Measurement*

# + type K/J thermometer, RS232 ANEMOMETER/HUMIDITY METER

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FEATURES	
<ul style="list-style-type: none"> <li>* Anemometer, Humidity/Temp. and type K/J thermometer meters are combined into one meter, intelligent design.</li> <li>* Microprocessor circuit assures maximum possible accuracy, provides special functions and features.</li> <li>* Super large LCD display, easy readout.</li> <li>* Dual function meter's display.</li> <li>* Low-friction ball vane wheels is accurate in both high &amp; low velocities for anemometer.</li> <li>* Thin-film capacitance sensor for humidity measurement, high precision, fast response.</li> <li>* Records Maximum &amp; Minimum readings with recall.</li> <li>* Data hold.</li> <li>* Auto shut off saves battery life.</li> <li>* RS 232 PC serial interface.</li> </ul>	<ul style="list-style-type: none"> <li>* The portable anemometer provides fast, accurate readings, with digital readability and the convenience of a remote sensor separately.</li> <li>* Multi-functions for air flow measurement: m/s, km/h, ft/min, knots, mile/h.</li> <li>* Build in temperature °C, °F measurement.</li> <li>* Thermistor sensor for Temp. measurement, fast response time.</li> <li>* Used the durable, long-lasting components.</li> <li>* Heavy duty &amp; compact housing case.</li> <li>* Deluxe hard carrying case, easy carryout &amp; storage.</li> <li>* Wide applications : To check air conditioning &amp; heating systems, measure air velocities, wind speeds, humidity temperature...etc.</li> </ul>

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. * Dual function meter's display.	Memory Recall	Records Maximum & Minimum readings with recall.	
		Power off	Auto shut off saves battery life or manual off by push button.	
Measurement	Anemometer : 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. Humidity meter : R.H. ( Relative Humidity ) Temperature - °C, °F. Type k thermometer : -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.	
		Dimension	Main instrument:	180x72x32 mm (7.1x2.8x1.3 inch).
			Anemometer probe :	Round, 72 mm Dia.
			Humidity Probe:	Round 26 mm Dia. x 160 mm.
		Sensor Structure	Anemometer : Air velocity : Conventional twisted van arm and low friction ball bearing design. Temperature : Precision thermistor. Humidity meter : Humidity : High precision thin-film capacitance sensor. Temperature : Precision thermistor. Type K/J thermometer : Thermocouple probe.	Accessories Included
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			
Data hold	To freeze the display reading on the LCD display.		RS232 cable, UPGB-01 USB cable, USB-01 Data Acquisition software, SW-U801-WIN	

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
Note: 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.

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