

*SD Card real time data recorder
200 mbar, differential manometer*

PITOT TUBE ANEMOMETER

Model : PAM-9212SD

ISO-9001, CE, IEC1010



FEATURES :

- * Air Velocity : 1 to 100.0 m/s.
- * Dual & differential input, 200 mbar max. range.
- * Application : Industrial, laboratory, heating, ventilation, medical hospital, used for air or not corrosive and not ionized gas & liquid.
- * Sensor is built inside the housing.
- * Single plugs for pipe connection.
- * Auto shut off saves battery life.
- * Zero button on the front panel, easy to offset the zero value.
- * Microprocessor circuit assures maximum possible accuracy, provides special functions and features.
- * Super large LCD display with contrast adjustment for best viewing angle.
- * Real time data logger, save the data into the SD memory card and can be downloaded to the Excel, extra software is no need.
- * SD card capacity : 1 GB to 16 GB.
- * LCD with green light backlight, easy reading.
- * It can default auto power off or manual power off.
- * Data hold, record max. and min. reading.
- * Power by UM3/AA (1.5 V) x 6 batteries or DC 9V adapter.
- * RS232/USB PC COMPUTER interface.



Lutron

LUTRON ELECTRONIC

The Art of Measurement

1 FEATURES

- * Pitot tube Anemometer measurements for Air Velocity .
- * Dual & differential input, ± 200 mbar max. range.
- * Application : Industrial, laboratory, heating, ventilation, medical hospital, used for air or not corrosive and not ionized gas & liquid.
- * Sensor is built inside the housing.
- * Single plugs for pipe connection.
- * Measurement units:
Air vilocity : m/s, km/h, FPM, mph, knots
Air pressure: 10 kind display units (mbar, Kg/cm^2 , mm Hg, meter H2O
Atmosphere, psi, inch Hg, inch H2O, hpa , kpa) select
by push button on the front panel
- * Auto shut off saves battery life.
- * Zero button on the front panel, easy to offset the zero value.
- * Microprocessor circuit assures maximum possible accuracy, provides special functions and features,
- * Super large LCD display with contrast adjustment for best viewing angle.
- * setup extra software, after execute datalogger, just take away the SD card from the meter and plug in the SD card into the computer, it can download the all the measured value with the time information (year/month/date/ hour/minute/second) to the Excel directly, then user can make the further data or graphic analysis by themselves.
- * SD card capacity : 1 GB to 16 GB.
- * LCD with green light backlight, easy reading.
- * It can default auto power off or manual power off.
- * Data hold, record max. and min. reading.
- * Microcomputer circuit, high accuracy.
- * Power by UM3/AA (1.5 V) x 6 batteries or DC 9V adapter.
- * RS232/USB PC COMPUTER interface.
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2. SPECIFICATIONS

2-1 General Specifications

Circuit	Custom one-chip of microprocessor LSI circuit.	
Display	LCD size : 51 mm x 37 mm LCD with green backlight (ON/OFF).	
Display units	Air vilocity : m/s, km/h, FPM, mph, knots Air pressure: psi , inch Hg , inch H2O , h PA , kPA mbar, Kg/cm ² , mm Hg , meter H2O , Atmosphere.	
Measurement Function	Air vilocity & Dual differential input, data hold, zero/relative, memory.	
Zero adjust	Push button on the front panel.	
Sensor	* Sensor is built inside the housing.	
	* Piezoelectric sensor.	
	* Used for dry, non-corrosive and non-ionic air and gas only. Liquid is prohibited.	
Datalogger Sampling Time Setting range	Auto	1 sec to 8 Hour 59 Minute 59 sec. @ Sampling time can set to 1 second, but memory data may loss.
	Manual	Push the data logger button once will save data one time. @ Set the sampling time to 0 second. @ Manual mode, can also select the 1 to 99 position (Location) no.
Data error no.	≤ 0.1 % no. Of total saved data typically.	
Memory Card	SD memory card. 1 GB to 16 GB.	
Advanced setting	<ul style="list-style-type: none"> * Set clock time (Year/Month/Date,Hour/Minute/ Second) * Set sampling time * Auto power OFF management * Set beep Sound ON/OFF * Decimal point of SD card setting * SD memory card Format * Air density setting 	

Data Hold	Freeze the display reading.	
Memory Recall	Maximum & Minimum value.	
Sampling Time of Display	Approx. 1 second.	
Data Output	RS 232/USB PC computer interface. <i>* Connect the optional RS232 cable UPCB-02 will get the RS232 plug.</i> <i>* Connect the optional USB cable USB-01 will get the USB plug.</i>	
Operating Temperature	Meter	0 to 50 °C.
Operating Humidity	Less than 85% R.H.	
Power Supply	<i>* Alkaline or heavy duty DC 1.5 V battery (UM3, AA) x 6 PCs, or equivalent.</i>	
	<i>* DC 9V adapter input. (AC/DC power adapter is optional).</i>	
Power Current	Normal operation (w/o SD card save data and LCD Backlight is OFF) : <i>Approx. DC 7 mA.</i>	
	When SD card save the data and LCD Backlight is OFF) : <i>Approx. DC 25 mA.</i>	
	<i>* If LCD backlight on, the power consumption will increase approx. 10 mA.</i>	
Weight	265 g / 0.59 LB.	
Dimension	Meter	190 x 68 x 45 mm (7.5 x 2.7x 1.8 inch)
Accessories Included	<i>* Instruction manual..... 1 PC.</i> <i>* PLug for quick coupler..... 2 PCs.</i> <i>* Pito tube 018..... 1 PC.</i> <i>* Silicon Soft tube 01(50 cm)..... 2 PCs.</i>	

Manometer

<i>Unit</i>	<i>Max. range</i>		<i>Resolution</i>	
mbar	± 200	mbar	1	mbar
psi	± 2.9	psi	0.01	psi
Kg/cm ²	± 0.2	Kg/cm ²	0.001	Kg/cm ²
mm Hg	± 150	mm Hg	1	mm Hg
inch Hg	± 5.91	inch Hg	0.02	inch Hg
meter H ₂ O	± 2.040	meter H ₂ O	0.01	meter H ₂ O
h PA	± 200	h PA	1	h PA
K PA	± 20	K PA	0	K PA
inch H ₂ O	± 80.2	inch H ₂ O	0.05	inch H ₂ O
Atmosphere	± 0.2	Atmosphere	0.001	Atmosphere

<i>Unit</i>	<i>Max. range</i>		<i>Accuracy</i>
mbar	± 200	mbar	± 2 % F. S. <i>Note :</i> * 23 °C ± 5 °C . * F.S. : full scale * Included linearity, hysteresis and repeatability
psi	± 2.9	psi	
Kg/cm ²	± 0.2	Kg/cm ²	
mm Hg	± 150	mm Hg	
inch Hg	± 5.91	inch Hg	
meter H ₂ O	± 2.040	meter H ₂ O	
h PA	± 200	h PA	
K PA	± 20	K PA	
inch H ₂ O	± 80.2	inch H ₂ O	
Atmosphere	± 0.2	Atmosphere	

Remark :

Measuring unit	Display unit
psi	PSI
inch Hg	In Hg
inch H ₂ O	In H₂O
h PA	h PA
KPA	_ PA
mbar	- bAr
Kg/cm ²	_ g C₂
mm Hg	- - Hg
meter H ₂ O	- t H₂O
Atmosphere	AtP