# SD card real time data recorder 200 mbar, differential input

## MANAOMETER

## Model : PM-9112SD

ISO-9001, CE, IEC1010

02-2389-0101

www.yalab.com.tw H H bßr :Ö: POWER REC UNIT ZERO SET LOG TIME ENTER SD Card Data Recorder MANOMETER 200 mbar, differential input LILLutron PM-9112SD







The Art of Measurement

### MANAOMETER

Model : PM-9112SD

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#### FEATURE

\* Dual & differential input, 200 mbar max. range.

\* Application : Industrial, laboratory, heating, ventilation, medical hospital, used for air or not corrosive and not ionized gas.

\* Sensor is built inside the housing.

\* Single lugs for pipe connection.

\* 10 kind display units (mbar, psi, Kg/cm^2, mm Hg, inch Hg, meter H2O, inch H2O, Atmosphere, 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 down load the all the measured value with the time information (year/month/date/ hour/minute/second) to the Excel directly, thenuser 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.

Circuit	Custom one-chip of microprocessor LSI circuit.		
Display	LCD size : 51 mm x 37 mm		
	LCD with	green backlight ( ON/OFF ).	
Display units	psi , inch Hg , inch H2O , hPA , KPA, mbar, Kg/cm^2 , mm Hg , meter H2O ,		
	Atmosph	ere.	
Measurement	Dual & differential input, data hold,		
Function	zero/relative, memory.		
Zero adjust	Push button on the front panel.		
Sensor	* Sensor is built inside the housing.		
	* Piezoel	ectric sensor.	
	* Used fo	or dry, non-corrosive and non-ionic air and gas only.	
	* Liquid i	is prohibited.	
Datalogger Sampling	Auto	1 sec to 8 Hour 59 Minute 59 sec.	
Time Setting range		@ 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.	
Memory Card Advanced	SD memory card. 1 GB to 16 GB.		
setting	* Set clock time (Year/Month/Date,Hour/Minute/ Second )		
	* Set sar	npling time	
	* Auto p	ower OFF management	

#### GENERAL SPECIFICATION

	* Set beep Sound ON/OFF		
	* Decimal point of SD card setting		
	* SD memory card Format		
Data Hold	Freeze the display reading.		
Memory Recall	Maximum & Minimum value.		
Sampling Time of Display	Approx. 1 second.		
Operating Temperature	0 to 50 ℃.		
Operating Humidity	Less than 85% R.H.		
Data Output	RS 232/USB PC computer interface.		
	* Connect the optional RS232 cable UPCB-02 will get the RS232 plug.		
	* Connect the optional USB cable USB-01 will get the USB plug.		
Power Supply	* Alkaline or heavy duty DC 1.5 V battery ( UM3, AA ) x 6 PCs, or equivalent.		
	* DC 9V adapter input. ( AC/DC power adapter is optional ).		
Power Current	Normal operation ( w/o SD card save data and LCD Backlight is OFF) : Approx.		
	DC 7 mA.		
	When SD card save the data and LCD Backlight is OFF) :Approx. DC 25 mA.		
	* If LCD backlight on, the power consumption will increase approx. 10 mA		
Weight	265 g/0.59 LB.		
Dimension	190 x 68 x 45 mm (7.5 x 2.7x 1.8 inch)		
Accessories Included	* Instruction manual. 1 PC.		
	* Hard carrying case. 1 PC.		
	* PLug for quick coupler. 2 PCs.		
Optional Accessories	SD memory card ( 4 GB ) AC to DC 9V adapter.		
	USB cable, USB-01. RS232 cable, UPCB-02.		
	Data Acquisition software,SW-U801-WIN.		

#### ELECTRICAL SPECIFICATIONS (23 $\pm$ 5 °C)

Unit	Max. range	Resolution				
mbar	±200 mbar	0.1 mbar				
psi	±2.9 psi	0.001 psi				
Kg/cm^2	±0.204 Kg/cm^2	0.001 Kg/cm^2				
mm Hg	±150 mm Hg	0.1 mm Hg				
inch Hg	±5.905 inch Hg	0.002 inch Hg				
meter H2O	±2.04 meter H2O	0.001 meter H2O				
h PA	±200 h PA	0.1 h PA				
КРА	±20 K PA	0.01 K PA				
inch H2O	±80.2 inch H2O	0.05 inch H2O				
Atmosphere	±0.197 Atmosphere	0.001 Atmosphere				

Accuracy  $\pm$  2 % F.S.

Note :

- \* 23  $\pm$  5  $^\circ\!\mathrm{C}$  .
- \* F.S. : full scale
- \* Included linearity, hysteresis and repeatability

#### Remark :

Measuring unit	Display unit
psi	PSI
inch Hg	in Hg
inch H2O	in H2O
h PA	h PA
KPA	_PA

mbar	- bAr
Kg/cm^2	_g C2
mm Hg	Hg
meter H2O	H2O
Atmosphere	AtP

\* Appearance and specifications listed in this brochure are subject to change without notice.

PM-9112SD+2005

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