# MANOMETER 200 mbar

Model: PM-9112SD *ISO-9001*, *CE*, *IEC1010* 









The Art of Measurement

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

### **MANAOMETER**

Model: PM-9112SD

#### **FEATURES**

<u></u>	EATURES
*	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 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.

#### GENERAL SPECIFICATIONS

Custom one-chip of microprocessor LSI circuit.			
LCD size : 61 mm x 34 mm			
LCD with green backlight (ON/OFF).			
	Hg , inch H2O , hPA , KPA, mbar,		
	2 , mm Hg , meter H2O , Atmosphere.		
Dual & differential input, data hold,			
zero/relative, memory.			
Push button on the front panel.			
* Sensor is built inside the housing.			
* Piezoelectric sensor.			
* Used f	or dry, non-corrosive and		
non-io	nic air and gas only.		
Liquid is prohibited.			
Auto	1 sec to 3600 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.		
SD mem	ory card. 1 GB to 16 GB.		
* Set clock time			
(Year/Month/Date, Hour/Minute/ Second )			
* Set sampling time			
* Auto power OFF management			
	ep Sound ON/OFF		
* Decim	al point of SD card setting		
* SD me	emory card Format		
Freeze the display reading.			
Maximum & Minimum value.			
Approx.	1 second.		
Meter	0 to 50 ℃.		
Probe	0 to 60 ℃.		
Less than	1 85% R.H.		
	circuit.  LCD size LCD with psi , inch Kg/cm^2 Dual & d zero/rela Push but * Sensor * Used f non-io Liquid  Auto  Manual  SD meme * Set clo (Year/ * Set sa * Auto p * Set be * Decim * Decim mereze th Maximun Approx.		

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	489 g/1.08 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±5 ℃)						
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		
K PA	±20	K PA	0.01	K PA		
inch H2O	±80.2	inch H2O	0.05	inch H2O		
Atmosphere	±0.197	Atmosphere	0.001	Atmosphere		

Unit	Max. range		Accuracy	
mbar	±200	mbar	± 2 % F.S.	
psi	±2.9	psi		
Kg/cm^2	±0.204	Kg/cm^2	Note:	
mm Hg	±150	mm Hg	*23 ± 5 ℃.	
inch Hg	±5.905	inch Hg	* F.S. : full scale	
meter H2O	±2.04	meter H2O	* Included linearity,	
h PA	±200	h PA	hysteresis and	
K PA	±20	K PA	repeatability	
inch H2O	±80.2	inch H2O		
Atmosphere	±0.197	Atmosphere		

#### Remark :

Remark:			
Measuring	Display unit		
unit			
psi	Psi		
inch Hg	in/Hg		
inch H2O	inch H2O		
h PA	h PA		
KPA	- PA		
mbar	- bar		
Kg/cm^2	- g /cm2		
mm Hg	/Hg		
meter H2O	- H2O		
Atmosphere	ATP		
-			

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