# 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**

F	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				
L	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				
L	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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#### GENERAL SPECIFICATIONS

GLIVERAL SEL	CILICAL	IONS		
Circuit	Custom one-chip of microprocessor LSI			
	circuit.			
Display	LCD size: 51 mm x 37 mm			
		green backlight ( ON/OFF ).		
Display units		Hg, inch H2O, hPA, KPA, mbar,		
	Kg/cm^2 , mm Hg , meter H2O , Atmosphere.			
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.			
		lectric sensor.		
		or dry, non-corrosive and		
	non-ionic air and gas only.			
	Liquid	is prohibited.		
Datalogger	Auto	1 sec to 8 Hour 59 Minute 59 sec.		
Sampling Time		@ Sampling time can set to 1 second,		
Setting range		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	SD memory card. 1 GB to 16 GB.			
Advanced	* Set clock time			
setting	(Year/Month/Date, Hour/Minute/ Second )			
		mpling time		
		power OFF management		
		ep Sound ON/OFF		
		al point of SD card setting		
	* SD memory card Format			
Data Hold	Freeze the display reading.			
Memory Recall	Maximum & Minimum value.			
Sampling Time	Approx. 1 second.			
of Display	0 . 56 ^	~		
Operating	0 to 50 ℃.			
Temperature		050/ B II		
Operating	Less than	า 85% R.H.		
Humidity				

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.

Unit	Max. ra	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 °C .
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	in H2O		
h PA	h PA		
KPA	_PA		
mbar	- bAr		
Kg/cm^2	_g C2		
mm Hg	Hg		
meter H2O	H2O		
Atmosphere	AtP		
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