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datasheet



MANOMETER

dual & differential input

Model : PM-9100

FEATURES	
* Dual & differential input, 2000 mbar max. range.	* Push button gain adjustment, usage for calibration precisely if necessary.
* Application : Industrial, laboratory, heating, ventilation, medical hospital, used for air or not corrosive and not ionized gas & liquid.	* Microprocessor circuit assures maximum possible accuracy, provides special functions and features,
* Sensor is built inside the housing.	* Super large LCD display with contrast adjustment for best viewing angle.
* Single lugs for pipe connection.	* Records maximum & minimum readings with recall.
* 8 kind display units (m bar, psi, Kg/cm ² mm/Hg, inch/Hg, meter/HF2 , inch/HF2 , Atmosphere) select by push button on the front panel	* Data Hold function for stored the desired value on display.
* Auto shut off saves battery life.	* Built-in low battery indicator.
* Zero button on the front panel, easy to offset the zero value.	* RS 232 PC serial interface, can match the personal computer used as the Data Logger, Recorder.... & other modern pressure measuring system.

GENERAL SPECIFICATIONS			
Circuit	Microprocessor LSI circuit.	Power off	Auto shut off, saves battery life, or manual off by push button.
Display	61 mm x 34 mm supper large LCD display. 15 mm (0.6") digit size.	Sampling time	Approx. 0.8 second.
Display units	mbar, psi, Kg/cm ² mm/Hg, inch/Hg, meter/HF2 , inch/HF2 , Atmosphere.	Operating temperature	0 to 50 °C (32 to 122 °F).
Function	Dual & differential input, data hold, zero/relative, memory.	Operating humidity	Less than 80% R.H.
Zero adjust	Push button on the front panel.	Power supply	006P DC 9V battery(heavy duty).
Span adjust	Push button gain adjustment, usage for calibration precisely if necessary.	Power current	Approx. DC 8.5 mA.
Sensor	* Sensor is built inside the housing. * Piezoelectric sensor, used for air or not corrosive and not ionized gas & liquids.	Weight	345 g/0.76 LB
Data hold	By push button.	Dimension	180 x 72 x 32 mm (7.1 x 2.8 x 1.3 inch)
Data record	Record maximum & minimum readings.	Accessories included	* Instruction manual..... 1 PC. * Hard carrying case..... 1 PC.
Data output	RS 232 PC serial interface.	Optional accessories	* Data acquisition software (Windows version), SW-U101-WIN * RS232 cable, UPCB-01

ELECTRICAL SPECIFICATIONS (23 ± 5 °C)			
Unit	Max. range	Resolution	Accuracy
m bar	2000 m bar	1 m bar	± 2 % F. S. (F.S. : full scale) Note : Included linearity, hysteresis and repeatability
psi	29 psi	0.01 psi	
Kg/cm ²	2.040 Kg/cm ²	0.001 Kg/cm ²	
mm/Hg	1500 mm/Hg	1 mm/Hg	
inch/Hg	59.05 inch/Hg	0.02 inch/Hg	
meter/HF2	20.40 meter/HF2	0.01 meter/HF2	
inch/HF2	802 inch/HF2	0.5 inch/HF2	
Atmosphere	1.974 Atmosphere	0.001 Atmosphere	

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

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