

*200 mbar, Dual & differential input
RS232/USB computer interface*

MANOMETER

Model : PM-9102

ISO-9001, CE, IEC1010



LUTRON ELECTRONIC

The Art of Measurement

200 mbar, dual & differential input

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Model : PM-9102

FEATURES

* 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.
* 8 kind display units (mbar, psi, Kg/cm ² , mm Hg, inch Hg, meter H ₂ O, inch H ₂ O, Atmosphere) 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.
* Records maximum & minimum readings with recall.
* Data Hold function for stored the desired value on display.
* Built-in low battery indicator.
* RS232 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.
Display	61 mm x 34 mm supper large LCD display. 15 mm (0.6") digit size.
Display units	mbar, psi, Kg/cm ² , mm Hg, inch Hg, meter H ₂ O, inch H ₂ O, Atmosphere.
Function	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.
Data hold	By push button.
Data record	Record maximum & minimum readings.
Data output	RS 232 PC serial interface.
Sampling time	Approx. 0.8 second.
Power off	Auto shut off, saves battery life or manual off by push button.

Operating temperature	0 to 50 °C (32 to 122 °F).
Operating humidity	Less than 80% R.H.
Power supply	006P DC 9V battery (heavy duty).
Power current	Approx. DC 6.0 mA.
Weight	345 g/0.76 LB .
Dimension	180 x 72 x 32 mm (7.1 x 2.8 x 1.3 inch).
Accessories included	* Instruction manual..... 1 PC. * Hard carrying case..... 1 PC. * Plug for quick coupler..... 2 PCs.
Optional accessories	* Data acquisition software (Windows version)..... SW-U101-WIN * USB cable.....USB-01 * RS232 cable.....UPCB-01

ELECTRICAL SPECIFICATIONS

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 H ₂ O	2.040 meter H ₂ O	0.001 meter H ₂ O
inch H ₂ O	80.2 inch H ₂ O	0.05 inch H ₂ O
Atmosphere	0.197 Atmosphere	0.001 Atmosphere

Unit	Max. range	Accuracy
mbar	200 mbar	± 2 % F. S. <i>Note :</i> * 23± 5 °C. * F.S. : full scale * Included linearity, hysteresis and repeatability
psi	2.9 psi	
Kg/cm ²	0.204 Kg/cm ²	
mm Hg	150 mm Hg	
inch Hg	5.905 inch Hg	
meter H ₂ O	2.040 meter H ₂ O	
inch H ₂ O	80.2 inch H ₂ O	
Atmosphere	0.197 Atmosphere	

Remark :

Measuring unit	Display unit
mbar	m Bar
psi	Psi
Kg/cm ²	Kg /cm²
mm Hg	mm /Hg
inch Hg	in /Hg
meter H ₂ O	m H₂O
inch H ₂ O	inch H₂O
Atmosphere	ATP

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

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