

2000 mbar, Dual & differential input  
RS232/USB computer interface

# MANOMETER

Model : PM-9102

ISO-9001, CE, IEC1010



**Lutron**

LUTRON ELECTRONIC

*The Art of Measurement*

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200 mbar, dual & differential input

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## 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 <sup>2</sup> , mm Hg, inch Hg, meter H <sub>2</sub> O, inch H <sub>2</sub> 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 <sup>2</sup> , mm Hg, inch Hg, meter H <sub>2</sub> O, inch H <sub>2</sub> O, Atmosphere.
Function	Dual & differential input, data hold, zero/relative, memory.
Zero adjust	Push button on the front panel.
Sensor	<ul style="list-style-type: none"> <li>* Sensor is built inside the housing.</li> <li>* Piezoelectric sensor.</li> </ul> <div style="text-align: center; margin: 10px 0;">  </div> <p>* <b>Used for dry, non-corrosive and non-ionic air and gas only. Liquid is prohibited.</b></p>
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	<ul style="list-style-type: none"> <li>* Instruction manual..... 1 PC.</li> <li>* Hard carrying case..... 1 PC.</li> <li>* Plug for quick coupler..... 2 PCs.</li> </ul>
Optional accessories	<ul style="list-style-type: none"> <li>* Data acquisition software ( Windows version )..... SW-U801-WIN</li> <li>* USB cable..... USB-01</li> <li>* RS232 cable.....UPCB-01</li> </ul>

## ELECTRICAL SPECIFICATIONS

Unit	Max. range	Resolution
mbar	200 mbar	0.1 mbar
psi	2.9 psi	0.001 psi
Kg/cm <sup>2</sup>	0.204 Kg/cm <sup>2</sup>	0.001 Kg/cm <sup>2</sup>
mm Hg	150 mm Hg	0.1 mm Hg
inch Hg	5.905 inch Hg	0.002 inch Hg
meter H <sub>2</sub> O	2.040 meter H <sub>2</sub> O	0.001 meter H <sub>2</sub> O
inch H <sub>2</sub> O	80.2 inch H <sub>2</sub> O	0.05 inch H <sub>2</sub> O
Atmosphere	0.197 Atmosphere	0.001 Atmosphere

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

### Remark :

Measuring unit	Display unit
mbar	<b>m Bar</b>
psi	<b>Psi</b>
Kg/cm <sup>2</sup>	<b>Kg /cm<sup>2</sup></b>
mm Hg	<b>mm /Hg</b>
inch Hg	<b>in/Hg</b>
meter H <sub>2</sub> O	<b>m H<sub>2</sub>O</b>
inch H <sub>2</sub> O	<b>inch H<sub>2</sub>O</b>
Atmosphere	<b>ATP</b>

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