

# PRESSURE METER

Model : PS-9302

ISO-9001, CE, IEC1010



**Lutron**

**LUTRON ELECTRONIC**

**The Art of Measurement**

# PRESSURE METER

Model : PS-9302

FEATURES	
* Meter can cooperate with 2, 5, 10, 20, 50, 100, 400 bar sensor, new calibration are not necessary when change the new sensor .	* Zero button on the front panel, easy adjust the zero value of pressure sensor.
* When change the new pressure sensor, just select pressure type ( 2, 5, 10, 20, 50, 100, 400 bar ) on the front panel button. The sensor type will memorize into the circuit permanently by EEPROM.	* Push button gain adjustment, usage for calibration precisely if necessary.
* 8 kind pressure units ( bar, psi, Kg/cm2 mm/Hg, inch/Hg, meter/H2O, inch/H2O, Atmosphere ) select by push button on the front panel	* Separate pressure sensor, easy operation. & remote measurement.
* Optional full line pressure sensor ( 2, 5, 10, 20, 50, 100, 400 bar ) are available.	* Microprocessor circuit assures maximum possible accuracy, provides special functions and features,
* Auto shut off saves battery life.	* Super large LCD display with contrast adjustment for best viewing angle.
* 4 pin DIN socket, 2 pins to provide DC 5 V exciting voltage ( power supply ) to pressure transducer, another two pins for accept transducer signal of 100mV full scale.	* Records maximum & minimum readings with recall.
	* Data Hold function for stored the desired value on display.
	* Built-in low battery indicator.
	* RS232/USB PC serial interface, can match the personal computer used as the Data Logger, Pressure 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.	Operating temperature	0 to 50 °C ( 32 to 122 °F ).
Display units	bar, psi, Kg/cm2, mm/Hg, inch/Hg, meter/H2O inch/H2O, Atmosphere.	Operating humidity	Less than 80% R.H.
Pressure transducer	Optional, exciting voltage DC 5V, Sensor max. range output is DC 100 mV.	Power supply	006P DC 9V battery(heavy duty).
Zero adjust	Push button on the front panel.	Power current	Approx. DC 8.5 mA.
Span adjust	Push button gain adjustment, usage for calibration precisely if necessary.	Weight	345 g/0.76 LB
Transducer mV input signal	Approx 100 mV (Full Scale).	Dimension	180 x 72 x 32 mm ( 7.1 x 2.8 x 1.3 inch ).
Exciting output power supply	DC 5 V.	Accessories included	* Instruction manual.....1 PC
Data hold	By push button.	Optional accessories	* Pressure sensor, PS100-xxBAR refer to the bottom description.
Data record	Record maximum & minimum readings.		* Hard carrying case ( CA-06 ).
Data output	RS 232/USB PC serial interface.		* Data acquisition software, SW-U801-WIN.
Sampling time	Approx. 0.8 second.		* RS232 cable, UPGB-01
			* USB cable, USB-01

APPLICATIONS	
* Measure Pneumatic Pressures. * Measure Automobile Engine Vacuum Pressures. * Pressure for Super Heat Measurements	* Hydraulic Servo controls * Refrigeration * Air conditioning * Food Processing

ELECTRICAL SPECIFICATIONS														
Sensor type	2 bar		5 bar		10 bar		20 bar		50 bar		100 bar		400 bar	
	Max. range	Resolution	Max. range	Resolution	Max. range	Resolution	Max. range	Resolution	Max. range	Resolution	Max. range	Resolution	Max. range	Resolution
bar	2	0.002	5	0.005	10	0.01	20	0.02	50	0.05	100	0.1	400	0.5
psi	29	0.02	72.5	0.1	145	0.2	290	0.2	725	1	1450	2	5800	5
Kg/cm2	2.040	0.002	5.095	0.005	10.19	0.01	20.40	0.02	50.95	0.05	101.9	0.1	408	0.5
mm/Hg	1500	2	3750	5	7500	10	15000	20	37500	50	75000	100	300000	500
inch/Hg	59.05	0.05	147.6	0.1	295.2	0.2	590.5	0.5	1476	1	2952	2	11810	10
meter/H2O	20.40	0.02	50.95	0.05	101.9	0.1	204.0	0.2	509.5	0.5	1019	1	4075	5
inch/HF20	802	1	2006	2	4010	5	8020	10	20050	20	40100	50	160600	200
Atmosphere	1.974	0.002	4.935	0.005	9.87	0.01	19.74	0.02	49.35	0.05	98.7	0.1	394.5	0.5

## PRESSURE SENSOR, Model : PS100-XXBAR

Description	* Optional, pressure sensor that cooperate with PS-9302.	
	* Out put : 100 mV DC for full scale.	
	* 4 pin DIN plug, 2 pins to accept DC 5 V exciting voltage(power supply) for pressure transducer, another two pins for output signal of 100mV full scale.	
	Size : 30 mm dia. x 85 mm. Weight : 160 g.	
	Pressure Port Connector : PS 1/4" ( 19 teeth per inch ) or 1/4" NPT * Included one adapter connector that convert the 1/4" NPT to 1/4 " PS.	
Model	2 bar sensor	PS100-2BAR
	5 bar sensor	PS100-5BAR
	10 bar sensor	PS100-10BAR
	20 bar sensor	PS100-20BAR
	50 bar sensor	PS100-50BAR
	100 bar sensor	PS100-100BAR
	400 bar sensor	PS100-400BAR

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

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