

PRESSURE SENSOR

Model : PS100-xxBAR

ISO-9001, CE, IEC1010



LUTRON ELECTRONIC



The Art of Measurement

PRESSURE TRANSDUCER

Model : PS100-xxBAR

SPECIFICATIONS		
Max capacity & model	<i>Max capacity</i>	<i>Model</i>
	2 BAR (29 PSI)	PS100-2BAR
	5 BAR (72.5 PSI)	PS100-5BAR
	10 BAR (145 PSI)	PS100-10BAR
	20 BAR (290 PSI)	PS100-20BAR
	50 BAR (725 PSI)	PS100-50BAR
	100 BAR (1450 PSI)	PS100-100BAR
	200 BAR (2900 PSI)	PS100-400BAR
Application	Optional pressure transducer for the pressure meter PS-9302	
Overload protection for the pressure sensor	150% max. capacity	
Supply voltage	DC 9V	
Transducer Port Connector	1/4" PS (per inch 19 teeth).	
Span	$\pm 1 \% \text{ F.S.}$ @ <i>Within 10 °C to 40 °C .</i> @ <i>Linearity + Hysteresis + Repeatability</i>	
Zero	$\pm 2 \% \text{ F.S.}$ @ <i>Within 10 °C to 40 °C .</i>	
Operating Temperature	0 °C to 60 °C (32 °F to 140 °F).	
Operating Humidity	Max. 80% RH.	
Output	Full capacity output = 100 mV DC	
Size	30 mm dia. x 85 mm.	
Weight	160 g.	
Cable length	1 meter.	
Wire Connection	4 pins standard DIN plug to cooperate the PS-9302 input socket. * 2 pins for 5V DC power supply. * 2 pins for 100 mV DC input signal.	

PRESSURE METER

Model : PS-9302

ISO-9001, CE, IEC1010



FEATURES

- * Meter can cooperate with 2, 5, 10, 20, 50, 100, 400 bar sensor, new calibration are not necessary when change the new sensor .
- * 8 kind pressure units : bar, psi, Kg/cm² mm/Hg, inch/Hg, meter/H₂O, inch/H₂O, Atmosphere.
- * 4 pin DIN socket, 2 pins to provide DC 5 V exciting voltage .
- * Zero button.
- * Separate pressure sensor, easy operation. & remote measurement.
- * Records max. & min. readings.
- * Data Hold.
- * RS 232 PC serial interface.



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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.
	* RS 232 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.	Sampling time	Approx. 0.8 second.
Display units	bar, psi, Kg/cm2, mm/Hg, inch/Hg, meter/H2O inch/H2O, Atmosphere.	Operating temperature	0 to 50 °C (32 to 122 °F).
Pressure transducer	Optional, exciting voltage DC 5V, Sensor max. range output is DC 100 mV.	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.
Transducer mV input signal	Approx 100 mV (Full Scale).	Weight	345 g/0.76 LB
Exciting output power supply	DC 5 V.	Dimension	180 x 72 x 32 mm (7.1 x 2.8 x 1.3 inch).
Data hold	By push button.	Accessories included	* Instruction manual..... 1 PC * Hard carrying case (CA-06)..... 1 PC
Data record	Record maximum & minimum readings.	Optional accessories	* Pressure sensor, PS100-xxBAR * Data acquisition software (Windows version), SW-U101-WIN * RS232 cable, UPCB-01
Data output	RS 232 PC serial interface.		

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

ELECTRICAL SPECIFICATIONS														
Sensor type	2 bar		5 bar		10 bar		20 bar		50 bar		100 bar		400 bar	
	Max. range	Reso- lution	Max. range	Reso- lution	Max. range	Reso- lution	Max. range	Reso- lution	Max. range	Reso- lution	Max. range	Reso- lution	Max. range	Reso- lution
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.
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.

CAT-0304-PS9302

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