PRESSURE METER

Model : PS-9302

www.yalab.com.tw   02-2389-0101

PRESSURE METER
Full line

Lutron PS-9302

PRESSURE TRANSDUCER

Model : PS100

Power : DC 4V to 30 V

Output : DC 4V to 20 mA
4 mA = 0 pressure
20 mA = Max. range pressure

Wire connection :
Red .... Power +
Black .... Power/Output-
White .... Output +

ISO 9001 SGS

UKAS QUALITY MANAGEMENT 005
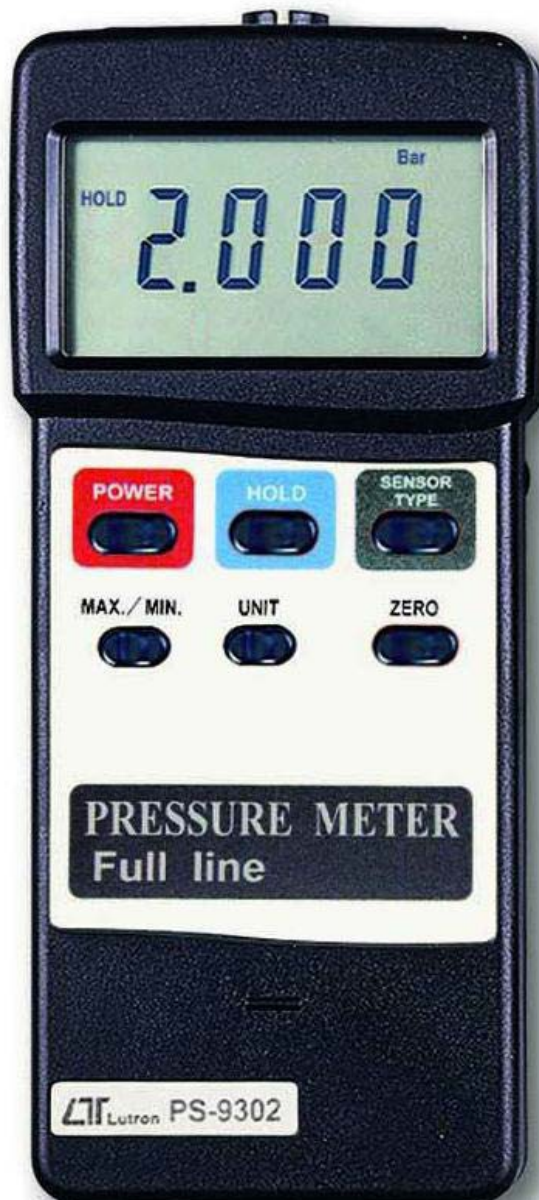
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The Art of Measurement

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.
	* Push button gain adjustment, usage for calibration precisely if necessary.
* 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.	* Separate pressure sensor, easy operation. & remote measurement.
	* Microprocessor circuit assures maximum possible accuracy, provides special functions and features,
* 8 kind pressure units (bar, psi, Kg/cm2 mm/Hg, inch/Hg, meter/H20, inch/H20, Atmosphere) select by push button on the front panel	* Super large LCD display with contrast adjustment for best viewing angle.
* Optional full line presssure sensor (2, 5, 10, 20, 50, 100, 400 bar) are available.	* Records maximum & minimum readings with recall.
	* Data Hold function for stored the desired value on display.
* Auto shut off saves battery life.	* Built-in low battery indicator.
* 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.	* RS232/USB PC serial interface, can match the personal computer used as the Data Logger, Pressure Recorder.... and other mordern pressure measuring system.

GENERAL SPECIFICATIONS

Circuit	Microprocessor LSI circuit.	Data output	RS 232/USB PC serial interface.
Display	61 mm x 34 mm supper large LCD display. 15 mm (0.6") digit size.	Sampling time	Approx. 0.8 second.
		Power off	Auto shut off, saves battery life, or manual off by push button.
Display units	bar, psi, Kg/cm^2, mm/Hg, inch Hg, meter H20 inch H20, Atmosphere.		
		Operating temperature	0 to 50 ℃ (32 to 122 ℉).
Accuracy	± (0.5% + 1 d) * Under the signal from the sensor is at full scale (100 mV). * Meter only. * Within 23 ℃± 5 ℃	Operating humidity	Less than 80% R.H.
		Power supply	006P DC 9V battery(heavy duty).
		Power current	Approx. DC 8.5 mA.
		Weight	345 g/0.76 LB
Pressure transducer	Optional, exciting voltage DC 5V, Sensor max. range output is DC 100 mV.	Dimension	180 x 72 x 32 mm (7.1 x 2.8 x 1.3 inch).
Zero adjust	Push button on the front panel.	Accessories included	* Instruction manual......................... 1 PC
Span adjust	Push button gain adjustment, usage for calibration precisely if necessary.		
		Optional accessories	* Pressure sensor, PS100-xxBAR refer to the bottom description. * Hard carrying case (CA-06). * Data acquisition software, SW-U801-WIN. * RS232 cable, UPCB-01 * USB cable, USB-01
Transducer mV input signal	Approx 100 mV (Full Scale).		
Exciting output power supply	DC 5 V.		
Data hold	By push button.		
Data record	Record maximun & mininun readings.		

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	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/cm^2	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 H20	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 H20	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