

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/cm ² , 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.... and other modern pressure measuring system. |

GENERAL SPECIFICATIONS

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|------------------------------|---|-----------------------|--|
| Circuit | Microprocessor LSI circuit. | Data output | RS 232/USB PC serial interface. |
| Display | 61 mm x 34 mm super large LCD display. 15 mm (0.6") digit size. | Sampling time | Approx. 0.8 second. |
| Display units | bar, psi, Kg/cm ² , mm/Hg, inch Hg, meter H2O inch H2O, Atmosphere. | Power off | Auto shut off, saves battery life, or manual off by push button. |
| Accuracy | ± (0.5% + 1 d) * Under the signal from the sensor is at full scale (100 mV). * Meter only. * Within 23 °C ± 5 °C | 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 |
| Data record | Record maximum & minimum readings. | 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 |

APPLICATIONS

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|---|----------------------------|-----------------|
| * 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 | 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/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 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 H2O | 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

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| 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.

1009-PS9302