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TECHNOLOGY GROUP

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DPG II – MODEL 15000
DIGITAL PRESSURE GAUGE

SILICON PRESSURE SENSOR



FEATURES

- 0.025% F.S. Accuracy
- Dynamic Temperature Compensation
- High Resolution (up to 2 ppm)
- IEEE-488 Communications
- 34 Selectable Pressure Units
- N.I.S.T. Traceable Calibration
- Silicon Pressure Sensor
- Absolute, Gauge or Sealed Gauge
- Pneumatic or Hydraulic Measurements
- Wide Range of Media Compatibility
- Multiple Pressure Units
- Internal Diagnostics

DESCRIPTION

Utilizing the experience and knowledge of over twenty years in the design and manufacture of precision pressure instruments and systems, Mensor has developed a new transducer that provides superior performance from a solid state pressure sensor. The proprietary design that provides high accuracy in other Mensor products, is incorporated in the new Model 15000 to achieve better than 0.025% full scale total accuracy. The accuracy statement of 0.025% FS includes linearity, hysteresis, repeatability and temperature effects (optional 0.01% f.s. accuracy available).

The Model 15000 is available in a variety of standard pressure ranges with gauge, absolute or sealed gauge sensors. The sensing element is compatible with a wide range of pressure media and can be used for either pneumatic or hydraulic pressure measurements.

The solid state sensor enables the Model 15000 to have essentially no tilt or vibration sensitivity. The design also makes the unit rugged enough for portable applications. An optional battery pack can be easily attached to the bottom of the instrument.

Applications requiring data communications can use the IEEE-488 communications which is standard or the optional serial EIA-232. The following information can be retrieved over the IEEE-BUS: GPIB address, pressure range, serial number and pressure reading.

Information is displayed via a two-line 16 character vacuum fluorescent readout. During the initialization period (after the unit is turned ON), the Model 15000 proceeds through a series of internal diagnostics and displays unit identification information, including software version, serial number, pressure range and GPIB address. The self-tests insure that the unit is ready for the operator to use.

Thirty four pressure units are available for display and may be selected by an internal switch. A rear panel switch allows the user to choose between pressure readings in 'PSI' or the second selected pressure unit. The full scale pressure range of the instrument is displayed on the front panel below the pressure reading in the selected pressure units.

Available options include EIA-232 communications, pressure rate, peak indication, battery power, relief valves, and special pressure ranges. Contact the factory about these or other special features that may be required for your specific application.

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