



bar **SERIES 2000**
Absolute and Gauge Pressure Transducers



Series 2000 Absolute Pressure Transducer



Series 2000 Gauge Pressure Transducer

Line of high precision pressure instrumentation:

Parts-per-billion resolution and typical accuracy of 0.01% are achieved even under harsh environmental conditions. Digiquartz® Transducers are essential for a variety of application areas where high resolution, accuracy, reliability, ruggedness, long-term stability, low power consumption and low cost of ownership are important requirements.

The remarkable performance of these transducers is achieved through the use of a precision quartz crystal resonator whose frequency of oscillation varies with pressure induced stress. A quartz crystal temperature signal is provided to thermally compensate the calculated pressure and achieve high accuracy over a broad range of temperatures. The transducers include integral shock protection to withstand extremely high acceleration, shock, and vibrational loads.

Our Quality Management System is certified to the requirements of the ISO 9001 International Quality Standard. It provides consistency in our products and processes from design and development through production, calibration, test, and servicing. Our quality system and commitment to excellence ensure customers of outstanding products and services. We offer a marketleading five year limited warranty on all Digiquartz® Transducers with the first two years covered at 100%. Free software is included for setup, configuration, sampling, display, data logging, and plotting. All Digiquartz® Transducers come with a limited 5-year warranty with the first 2 years covered at 100%.

10 ABSOLUTE RANGES

- 7-16 psia (0.05-0.11 MPa)
- 0-15 psia (0.10 MPa)
- 0-23 psia (0.16 MPa)
- 0-30 psia (0.21 MPa)
- 0-45 psia (0.31 MPa)
- 0-100 psia (0.69 MPa)
- 0-200 psia (1.38 MPa)
- 0-300 psia (2.07 MPa)
- 0-400 psia (2.76 MPa)
- 0-500 psia (3.65 MPa)

7nGAUGE RANGES

- ± 2 psig (±0.015 MPa)
- 0-15 psig (0.10 MPa)
- 0-22 psig (0.15 MPa)
- 0-30 psig (0.21 MPa)
- 0-100 psig (0.69 MPa)
- 0-150 psig (1.03 MPa)
- 0-200 psig (1.38 MPa)

FEATURES & PERFORMANCE**

- Frequency Outputs
- 0.01% Typical Accuracy
- Parts-per-billion Resolution*
- Low Power Consumption
- High Stability and Reliability
- On-Board Coefficient Storage
- On-Board Application Memory
- Fully Calibrated and Characterized
- NIST Traceable Calibration - CE Compliant

APPLICATION AREAS

- Metrology
- Aerospace
- Oceanography
- Hydrology
- Meteorology

*With Digiquartz® Nano-resolution Electronics

**Products defined by specification control drawing