



bar SERIES 1000, 6000 & 9000
Intelligent Transmitters

Intelligent Transmitters consist of a Digiquartz® Pressure Transducer and a digital interface board in an integral package. Commands and data requests are sent via two-way RS-232 or RS-485 serial interfaces. Direct digital outputs in engineering units are provided with parts-per-billion resolution using the built-in, anti-aliasing IIR filter mode. Typical accuracy is 0.01% even under harsh environmental conditions. All intelligent transmitters are preprogrammed with calibration coefficients for full plug-in interchangeability.

Intelligent transmitters are available in 20 absolute pressure ranges from 15 psia (0.10 MPa) to 40,000 psia (276 MPa), and 7 gauge pressure ranges from ± 2 psig (±0.015 MPa) to 200 psig (0.15 MPa). Dual RS-232 and RS-485 interfaces allow complete remote configuration and control of all operating parameters, including resolution, sample rate, choice of engineering units, integration time, and sampling requests. Commands include: Single sample and send, synchronized sample and hold, continuous sample and send, and special burst sampling modes.

Features include support for both serial loop and multi-drop networking, high-speed continuous pressure measurements, selectable baud rates up to 115,200 baud, synchronization of measurements with time-based integration, 2 or 4 wire RS-485 transmission distances greater than 1 kilometer, a power management "sleep" mode, data formatting features, and unit identification commands.

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%.

GAUGE RANGES

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



ABSOLUTE RANGES

- | | |
|-----------------------------|----------------------------|
| • 7-16 psia (0.05-0.11 MPa) | • 0-1000 psia (6.89 MPa) |
| • 0-15 psia (0.10 MPa) | • 0-2000 psia (13.8 MPa) |
| • 0-23 psia (0.16 MPa) | • 0-3000 psia (20.7 MPa) |
| • 0-30 psia (0.21 MPa) | • 0-4400 psia (30.3 MPa) |
| • 0-45 psia (0.31 MPa) | • 0-6000 psia (41.4 MPa) |
| • 0-100 psia (0.69 MPa) | • 0-10,000 psia (68.9 MPa) |
| • 0-200 psia (1.38 MPa) | • 0-15,000 psia (103 MPa) |
| • 0-300 psia (2.07 MPa) | • 0-20,000 psia (138 MPa) |
| • 0-400 psia (2.76 MPa) | • 0-30,000 psia (207 MPa) |
| • 0-500 psia (3.65 MPa) | • 0-40,000 psia (276 MPa) |

FEATURES & PERFORMANCE*

- 0.01% Typical Accuracy
- Parts-per-billion Resolution
- High Stability and Reliability
- Dual RS-232 and RS-485 Interfaces
- Fully Calibrated and Characterized
- NIST Traceable - CE Compliant

APPLICATION AREAS

- | | |
|---------------|-------------------------------|
| - Metrology | - Oceanography |
| - Hydrology | - Process Control |
| - Aerospace | - Energy Exploration |
| - Meteorology | - Wind Tunnel Instrumentation |

*Products defined by specification control drawing

The information provided herein is to the best of our knowledge true and accurate, it is provided for guidance only. All specifications are subject to change without prior notification.