## Intelligent Transmitters So

# Series 1000, 6000 & 9000



Paroscientific 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-perbillion 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%.

### **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)

#### **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

#### **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

<sup>\*</sup>Products defined by specification control drawing

The Model 715 displays pressure and temperature data from all Paroscientific Intelligent transmitters that have Dual RS-232 and RS-485 interfaces. The two-line, 16 character, alphanumeric, backlit, liquid crystal display is user configurable with included software. Display functions include pressure and temperature values with engineering units, overpressure warning, tare indicator, user defined text messages, and a horizontal analog bar graph showing percentage of full-scale pressure.

The Model 715 Display will respond to display commands from the transmitter, a computer, or other serial host on either the RS-232 or RS-485 port. For stand-alone operation, it displays data whenever power is applied to the transmitter.





Paroscientific, Inc.
Digiquartz<sup>®</sup> Pressure Instrumentation