Submersible Depth Sensors

Series 8000



Digiguartz[®] Transducers are incorporated submersible housings as depth sensors. All depth sensor ranges are available with either frequency outputs or integral intelligent electronics with bi-directional digital communications. Typical application accuracy is better than 0.01% with parts-per-billion resolution, low power consumption, and excellent long-term stability.

Intelligent Depth Sensors with 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: sample and send, synchronized sample and hold, continuous sample and send, and special burst sampling modes. Other features include support for both serial loop and multi-drop networking, selectable baud rates up APPLICATION AREAS to 115,200 baud, high-speed continuous pressure measurements, a power management "sleep" mode, formatting features, synchronization of measurements with time-based integration, unit identification commands, and 2 or 4 wire RS-485 transmission distances greater than 1 kilometer.

All Digiquartz[®] Transducers come with a limited five-year warranty with the first two years covered at 100%.

ABSOLUTE RANGES (Frequency or Serial Outputs Available)

0-10 mH ₂ O	(30 psia, 0.21 MPa)
0-20 mH ₂ O	(45 psia, 0.31 MPa)
0-60 mH ₂ O	(100 psia, 0.69 MPa)
0-130 mH ₂ O	(200 psia, 1.38 MPa)
0-200 mH ₂ O	(300 psia, 2.07 MPa)
0-270 mH ₂ O	(400 psia, 2.76 MPa)
0-700 mH ₂ O	(1000 psia, 6.89 MPa)
0-1400 mH ₂ O	(2000 psia, 13.8 MPa)
0-2000 mH ₂ O	(3000 psia, 20.7 MPa)
0-3000 mH ₂ O	(4400 psia, 30.3 MPa)
0-4000 mH ₂ O	(6000 psia, 41.4 MPa)
0-7000 mH ₂ O	(10,000 psia, 68.9 MPa)

GAUGE RANGES (Frequency or Serial Outputs Available)

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

FEATURES & PERFORMANCE*

0.01% Typical Accuracy

Parts-per-billion Resolution** Low Power Consumption High Stability and Reliability NIST Traceable - CE Compliant Fully Calibrated and Characterized Frequency Outputs or Dual RS-232 and RS-485 Interfaces

Geodesv Hydrology Oceanography **Tsunami Detection** Wave and Tide Gauges Offshore Platform Leveling Dam and Reservoir Level Sensing **Underwater Pipe Laying and Surveying** Remotely Operated and Autonomous Underwater Vehicles



Paroscientific, Inc. **Digiquartz® Pressure Instrumentation**

^{*}Products defined by specification control drawing **With Digiquartz® Nano-resolution electronics