bar

8000 SERIES

Submersible Depth Sensors

Digiquartz® Transducers are incorporated into 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: Single 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 to 115,200 baud, high-speed continuous pressure measurements, a power management "sleep" mode, data 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%.

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

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

Version | 11.2021

ABSOLUTE RANGES (FREQUENCY OR SERIAL OUTPUTS AVAILABLE)

- 0-10 mH2O (30 psia, 0.21 MPa)
- 0-20 mH2O (45 psia, 0.31 MPa)
- 0-60 mH2O (100 psia, 0.69 MPa)
- 0-130 mH2O (200 psia, 1.38 MPa)
- 0-200 mH2O (300 psia, 2.07 MPa)
- 0-270 mH2O (400 psia, 2.76 MPa)
- 0-700 mH2O (1000 psia, 6.89 MPa)
- 0-1400 mH2O (2000 psia, 13.8 MPa)
- 0-2000 mH2O (3000 psia, 20.7 MPa)
- 0-3000 mH2O (4400 psia, 30.3 MPa)
- 0-4000 mH2O (6000 psia, 41.4 MPa)
- 0-7000 mH2O (10,000 psia, 68.9 MPa)

GAUGE RANGES (FREQUENCY OR SERIAL OUTPUTS AVAILABLE)

- 0-10 mH2O (15 psig, 0.10 MPa)
- 0-15 mH2O (22 psig, 0.15 MPa)
- 0-20 mH2O (30 psig, 0.21 MPa)
- 0-70 mH2O (100 psig, 0.69 MPa)
- 0-100 mH2O (150 psig, 1.03 MPa)
- 0-140 mH2O (200 psig, 1.38 MPa)

APPLICATION AREAS

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

Version | 11.2021

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.

Althen – Your expert partner in Sensors & Controls | althensensors.com

Althen stands for pioneering measurement and custom sensor solutions. In addition we offer services such as calibration, design & engineering, training and renting of measurement equipment.

Germany/Austria/Switzerland	Benelux	France	Sweden	USA/Canada	Other countries
info@althen.de	sales@althen.nl	info@althensensors.fr	info@althensensors.se	info@althensensors.com	info@althensensors.com