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PT2X Submersible Temperature/Pressure Transmitter

DESCRIPTION

The AquiStar® PT2X submersible pressure transmitter represents the latest in state-of-the-art level measurement technology. Building on years of successful experience, this industry standard digital RS485 interface device offers great noise immunity, thermal performance and transient protection. In addition, this device stores over 130,000 records of pressure, temperature and time data, operates with low power, and features easy to use software with powerful features. The transmitter's end cone is interchangeable with a 1/4" NPT inlet which allows for increased application use and easy hookup. The modular designed AquiStar® PT2X can be factory serviced and repaired saving on future upgrade and repair costs.

OPERATION

The PT2X is powered internally with two AA batteries or with an auxiliary power supply for data intensive applications. At the rate of four measurements per hour, the unit will run for a year on its internal AA batteries. The PT2X comes with powerful, easy-to-use, Windows®-based Aqua4Plus software, affording the user extensive control, including real time monitoring, flexible programming, easy field calibration, and a delayed start feature. Aqua4Palm is available for Palm®-based handhelds (available for rental), allowing the user to create test sessions, examine data, and monitor real time readings with the convenience and portability of a PDA.

APPLICATIONS

Due to its rugged construction, proven reliability, and datalogging capability, the AquiStar® PT2X can be used to replace analog sensors with separate dataloggers. Units can be used to monitor groundwater, well, tank and tidal levels, as well as for pump testing and flow monitoring.

FEATURES

- RS485/RS232 interface
- Small diameter
- Pressure, temperature & time
- 130,000+ records / non-volatile
- 316 stainless steel, Viton and Teflon construction
- Polyethylene, Polyurethane and FEP Teflon cable options
- Cableless version available
- MODBUS® protocol for RTU & PLC applications
- Easy export to spreadsheets & databases

SPECIFICATIONS

MECHANICAL

TRANSMITTER

Body Material	316 stainless steel
Wire Seal Materials	Viton and Teflon
Desiccant	High- and standard- capacity packs
Terminating Connector	Available
Weight	0.80 lbs.

CABLE

Outer-Diameter	0.28" maximum
Break Strength	138 lbs.
Maximum Length	2000 feet
Weight	4 lbs. per 100 feet

ELECTRICAL

PRESSURE

Static Accuracy (B.F.S.L. 25° C)*	±0.1% FSO (maximum) ±0.06% FSO (typical) *0.06% available on request.*
Temperature Error (reference 25° C)	±0.5% FSO (maximum) ±0.25% FSO (typical)
Maximum Zero Offset	±0.25% FSO (at 25° C)
Resolution	16 bit
Over Range Protection	2x (except 300 PSIA)
Temperature Accuracy	±0.75° C (maximum)
Resolution	0.1° C

TIME

Accuracy	±4 min/yr (maximum) ±2 min/yr (typical)
Recommended Operating Temperature Range	0° C to 40° C