



Multi-Parameter

SMART SENSOR WITH DATA LOGGING



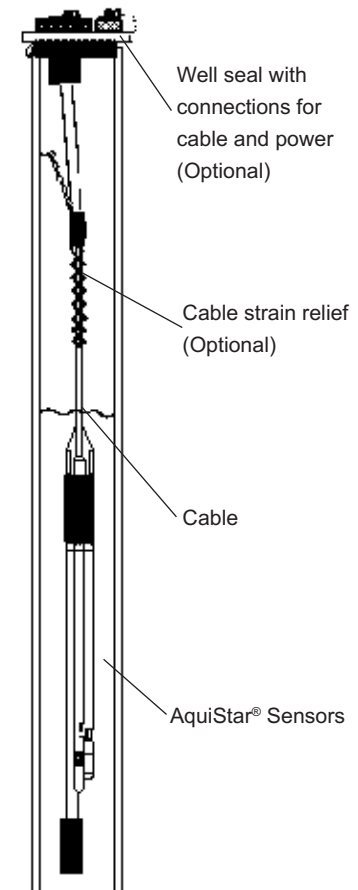
APPLICATIONS

- Surface water monitoring
- Groundwater monitoring
- Agricultural runoff studies
- Discharge monitoring
- Aquaculture
- Leachate monitoring
- Remediation performance monitoring
- Waste water treatment discharge



Features

- Measures pH, ORP, temperature, conductivity, salinity, TDS, pressure level, and dissolved oxygen or turbidity (depending on configuration)
- Modbus® and SDI-12 interface for greater flexibility
- Non-volatile memory
- RS485 network — connect with other Aquistar® Smart Sensors
- Wireless connectivity — radios and/or cellular
- Modular design — accommodate changes to parameter and data needs
- Flexible, Windows®-based programming
- Real time viewing
- Easy export to spreadsheets and databases
- Direct read option — use with panel meters or RTU/PLC applications
- Polyethylene, polyurethane, and FEP cable options
- Fits in 2" (5.1 cm) well



TYPICAL INSTALLATION

Contact Your Supplier



MECHANICAL

ADAPTER

Material	Acetal
Strain relief	Included

SENSOR TUBES

Tube Material	316 stainless steel or titanium
Wire Seal Materials	Fluoropolymer and PTFE

CABLE

OD	0.28" (0.7 cm) maximum
Break Strength	138 lbs. (62.7 kg)
Maximum Length	2000 feet (610 meters)
Weight	4 lbs. per 100 feet (1.8 kg / 30 m)

GENERAL

COMMUNICATION

Communication	RS485 Modbus RTU SDI-12 (ver.1.3)
Direct Modbus Read Output	32-bit IEEE floating point
SDI-12 Output	ASCII
Internal Math	32-bit floating point

POWER

External	12 VDC
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RANGE, RESOLUTION, ACCURACY

	RANGE	RESOLUTION	ACCURACY
Level/Pressure		16 bit	± 0.05% FSO typical ± 0.1% FSO maximum (B.F.S.L. 20° C)
Absolute PSIA	100 PSI		
Absolute mH ₂ O	70 mH ₂ O		
Absolute FtH ₂ O	231 FtH ₂ O		
Conductivity	0-100 mS/cm	0.001 mS/cm	± 0.5% of measured value
Salinity	2-42 PSU	0.001 PSU	± 1% of reading or 0.1 PSU whichever is greater
TDS	4.9 - 147,000 mg/L	0.1 mg/L	± 0.5% of measured value
pH	1-14 pH units	0.01 pH units	± 0.2 pH units
ORP	± 1200 mV	0.01 mVH	0.1 mVH
Dissolved Oxygen	0-25 ppm	0.01 ppm when <4.00 ppm 0.1 ppm when >4.00 ppm	1% of reading or 0.02 ppm whichever is greater
Turbidity	0-400 or 0-3000 NTU	± 3 NTU	± 2% @ 25° C or ± 2 NTU whichever is greater
Temperature	-5° to 40° C (23° to 104° F)	0.1° C	± 0.5° C

CONFIGURATIONS - Available in five standard options. (For additional configurations, contact your INW sales representative.)

	OPTION ONE	OPTION TWO	OPTION THREE	OPTION FOUR	OPTION FIVE
Level/Pressure					
Conductivity/Salinity/TDS					
pH/ORP					
Dissolved Oxygen					
Turbidity					
Temperature					