

Multi-Parameter

SMART SENSOR WITH DATA LOGGING

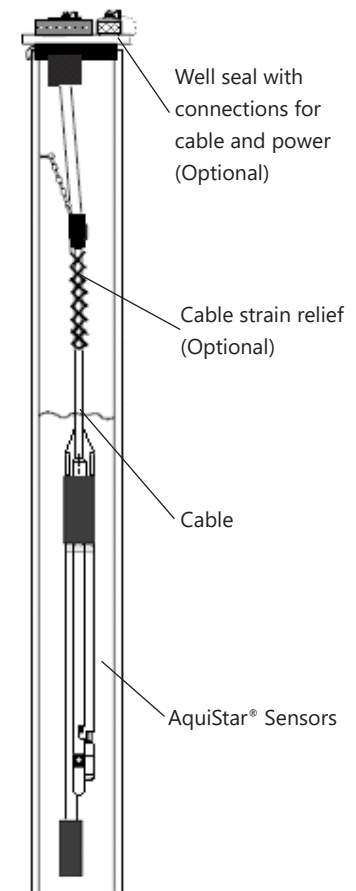


APPLICATIONS

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 Seametrics AquiStar® Smart Sensors
- Wireless connectivity — radios and/or cellular
- 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

Multi-Parameter SMART SENSOR WITH DATA LOGGING



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 nominal / 9-15VDC range
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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.

	OPTION ONE P/N 2L31000	OPTION TWO P/N 2L31006	OPTION THREE P/N 2L31004	OPTION FOUR P/N 2L31002	OPTION FIVE P/N 2L31008
Level/Pressure	✓	✓	✓	✓	✓
Conductivity/Salinity/TDS	✓	✓	✓	✓	✓
pH/ORP			✓	✓	✓
Dissolved Oxygen	✓			✓	
Turbidity		✓	✓		
Temperature	✓	✓	✓	✓	✓