

# Multi-Parameter

## SMART SENSOR WITH DATA LOGGING



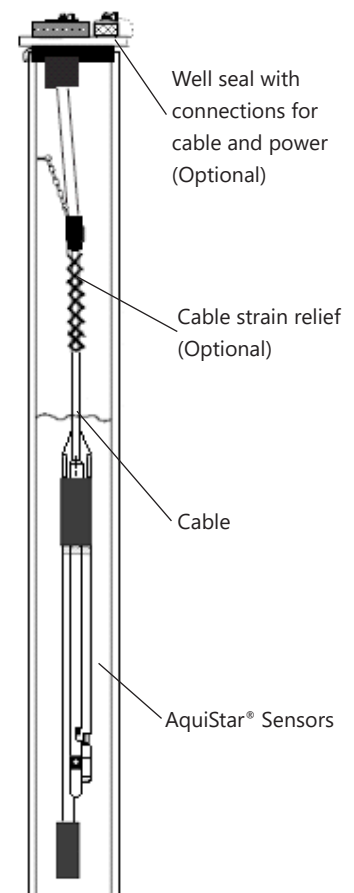
### APPLICATIONS

- 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
- 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

### Contact Your Supplier



TYPICAL INSTALLATION



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

## CONFIGURATIONS - Available in five standard options.

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