# Multi-Parameter SMART SENSOR WITH DATA LOGGING





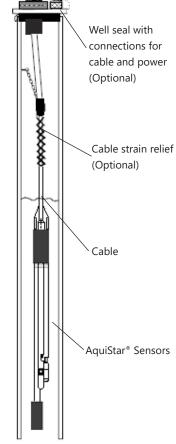
# **APPLICATIONS**

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<sup>®</sup> 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<sup>®</sup>-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		
Strain relief		

#### SENSOR TUBES

Tube Material

Wire Seal Materials

#### 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)	

Acetal Included

316 stainless steel or titanium

Fluoropolymer and PTFE

## 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

#### RANGE, RESOLUTION, ACCURACY

	RANGE	RESOLUTION	ACCURACY
<b>Level/Pressure</b> Absolute PSIA Absolute mH <sub>2</sub> O Absolute FtH <sub>2</sub> O	100 PSI 70 mH <sub>2</sub> O 231 FtH <sub>2</sub> O	16 bit	± 0.05% FSO typical ± 0.1% FSO maximum (B.F.S.L. 20° C)
Conductivity	0-100 mS/cm	0.001 mS/cm	$\pm$ 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	$\pm$ 0.5% of measured value
рН	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	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Conductivity/Salinity/TDS	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
pH/ORP			$\checkmark$	$\checkmark$	$\checkmark$
Dissolved Oxygen	$\checkmark$			$\checkmark$	
Turbidity		$\checkmark$	$\checkmark$		
Temperature	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$