

PT12 / SDI-12

SUBMERSIBLE PRESSURE/TEMPERATURE SMART SENSOR



APPLICATIONS

Rugged construction can replace analog sensors

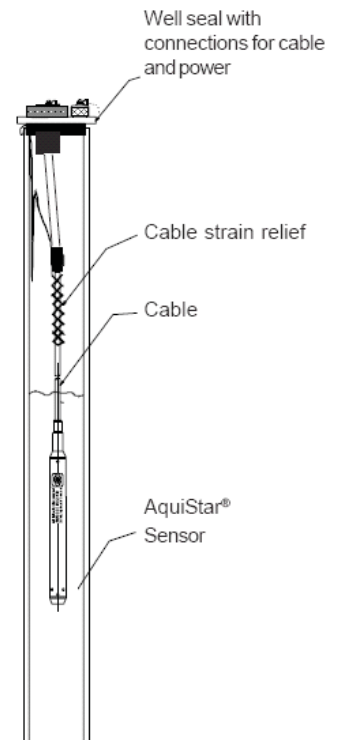
Monitor groundwater, well, tank, and tidal levels

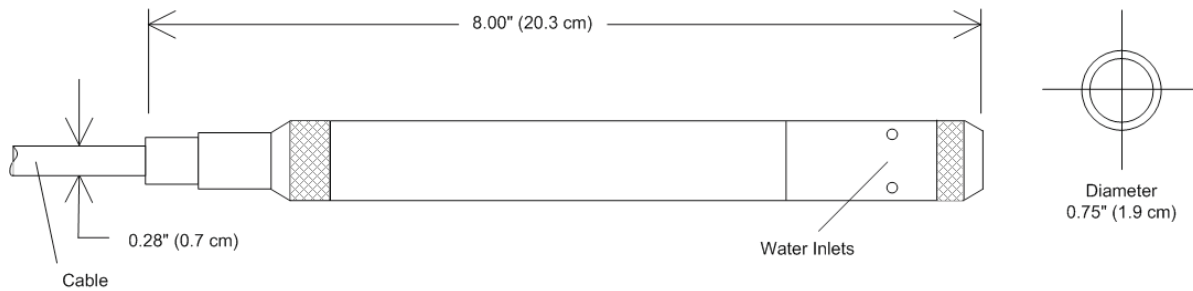
Pump testing

Flow monitoring

Features

- SDI-12 v1.3 interface and Modbus® interface
- Small diameter — 0.75”
- Pressure and temperature
- 316 stainless steel, Viton® and Teflon® construction — *titanium optional*
- Polyethylene, polyurethane, and FEP Teflon® cable options
- End cone interchangeable with a 1/4” NPT inlet
- The U.S.G.S OSW accuracy enhanced calibration is an option on the 15 psig (10.5 H₂O) unit





MECHANICAL

SENSOR

Body Material	316 stainless steel or titanium
Wire Seal Materials	Viton® and Teflon®
Desiccant	High- and standard- capacity packs
Terminating Connector	Available
Weight	0.80 lbs. (0.4 kg)
Diameter	0.75" (1.9 cm)
Length	8" (20.3 cm)

CABLE

OD	0.28" (0.7 cm) maximum
Break Strength	138 lbs. (62.7 kg)
Maximum Length	2000 feet (610 m) for Modbus® 200 feet (61 m) for SDI-12
Weight	4 lbs. per 100 feet (1.8 kg per 30 m)

OPERATIONAL

PRESSURE

Pressure Ranges	
PSIG (gauge)	5, 15, 30, 50, 100, 300
PSIA (absolute)	20, 30, 50, 100, 300
mH ₂ O (gauge)	3.5, 10.5, 21, 35, 70, 210
mH ₂ O (absolute)	14, 21, 35, 70, 210
Static Accuracy (B.F.S.L. 25° C)	± 0.1% FSO (maximum) ± 0.06% FSO (typical) ± 0.25% available on request
Maximum Zero Offset	± 0.25% FSO @ 25° C
Resolution	16 bit
Over Range Protection	2x [except 300 PSI (210 H ₂ O) and higher]

TEMPERATURE

Compensated Temp. Range	
Standard	-20° C to 40° C
Extended	-10° C to 50° C
Operating Temp. Range	
Standard	-20° C to 60° C
Extended	-40° C to 80° C

POWER

Operating Voltage	9 - 16 VDC
Over Voltage Protection	24 VDC
Power Supply Current	Active 3mA avg./10mA peak
Power Supply Current	Sleep 150 µA
Electromagnetic & Transient Protection	IEC-61000 – 4-3, 4-4, 4-5, 4-6

Contact factory for extended temperature ranges.

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SALES & SERVICE LOCATIONS

8902 122nd Avenue NE
Kirkland, WA 98033 USA
425-822-4434
FAX 425-822-8384 / info@inwusa.com

4620 Northgate Boulevard, Suite 170
Sacramento, CA 95834 USA
916-922-2900
FAX 916-648-7766 / inwsw@inwusa.com

1-800-PRO-WELL
WWW.INWUSA.COM

