

T1 / T1R

SUBMERSIBLE TEMPERATURE SMART SENSOR



APPLICATIONS

Rugged construction can replace analog sensors

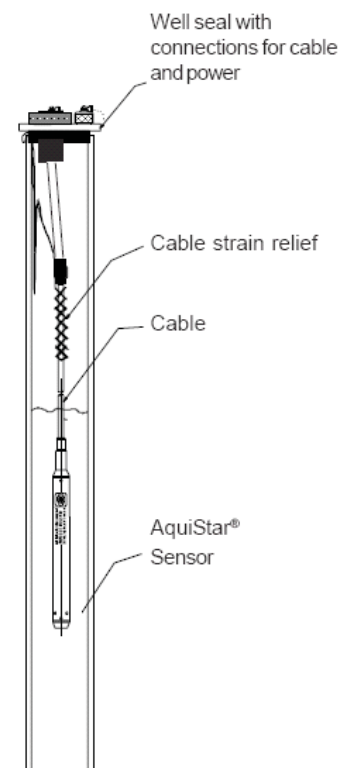
Monitor temperature

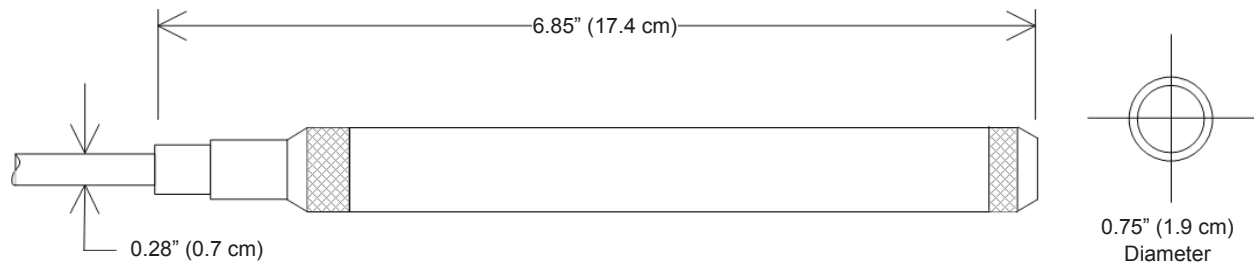
- Ground water
- Well
- Tank
- Tidal

Recording and non-recording temperature sensors

Features

- Temperature and time
- SDI-12 v1.3 interface and Modbus® interface
- Non-volatile memory
- Small diameter — 0.75”
- 316 stainless steel, fluoropolymer, and PTFE construction — *titanium optional*
- Polyethylene, polyurethane, and FEP cable options
- Easy to export to spreadsheets and databases
- Compatible with WaveData® Wireless Data Collection Systems
- Recording (T1R) and non-recording (T1) versions





GENERAL

Length	6.85" (17.4 cm)
Diameter	0.75" (1.9 cm)
Weight	0.8 lb. (0.4 kg)
Body Material	316 stainless steel or titanium
Wire Seal Material	Fluoropolymer and PTFE
Submersible Cable	Polyurethane, polyethylene, or FEP available
Terminating Connector	Available
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
Operating Temp. Range¹	-5° C to 70° C
Storage Temp. Range	-20° C to 80° C

LOGGING (T1R)

Memory	4MB - 520,000 records
Log Types	Variable, user-defined, logarithmic, profiled
Programmable Baud Rate	9600, 19200, 38400
Logging Rate	8x/sec maximum
Software	Complimentary Aqua4Plus or Aqua4Push
Networking	32 available addresses per junction w/batching capabilities (up to 255)
File Formats	.xls / .csv / .a4d

POWER(T1)

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

POWER(T1R)

Internal Battery	2x1.5V AA alkaline ²
Auxiliary Power	12 VDC - Nominal 6-15 VDC - Range
Exp. Alkaline Battery Life	18 months at 15m polling interval ³

² Lithium available upon request

³ May vary due to environmental factors

TEMPERATURE

Element Type	Digital IC on board
Accuracy	± 0.2° C
Resolution	0.06° C
Units	Celsius, Fahrenheit, Kelvin

Contact factory for extended temperature ranges.

¹ Requires freeze protection kit if in water below freezing

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