AquiStar®
T16
SMART THERMISTOR STRING
WITH DATA LOGGING

FEATURES

- RS485 interface
- Temperature & time
- Up to 16 channels
- Variety of thermistors available
- 25,000+ records / non-volatile
- Polyethylene, polyurethane and Tefzel® cable options
- MODBUS® protocol
- Easy export to spreadsheets and databases
- Compatible with WaveData® Wireless Data Collection Systems
- Compatible with Aqua4Push auto-polling software

DESCRIPTION

The AquiStar® T16 Smart Sensor is a submersible multi-channel temperature sensor and datalogger. The T16 Smart Sensor records over 25,000 records of temperature and time data, operates on low power, and features easy-to-use software with powerful features.

The T16 consists of an internally powered, 16-channel recorder housed in a small weather-proof box. Thermistors are embedded in strings of multi-conductor cable, up to 16 thermistors per string. Several strings can be attached to a single control box, up to a total of 16 thermistors per box.

Several T16s, or a combination of T16s, PT2X Pressure/Temperature Smart Sensors, and pH Smart Sensors can be networked together and controlled from one location, either directly from a single computer or via a WaveData™ Wireless Data Collection System.

OPERATION

The T16 is powered internally with two AA batteries or can be powered with an auxiliary 9 - 13 VDC supply for data intensive applications.

The T16 comes with powerful, easy-to-use, Windows®-based Aqua4Plus software, affording the user extensive control, including real time monitoring, flexible programming, tabular and graphing displays, and a delayed start feature.

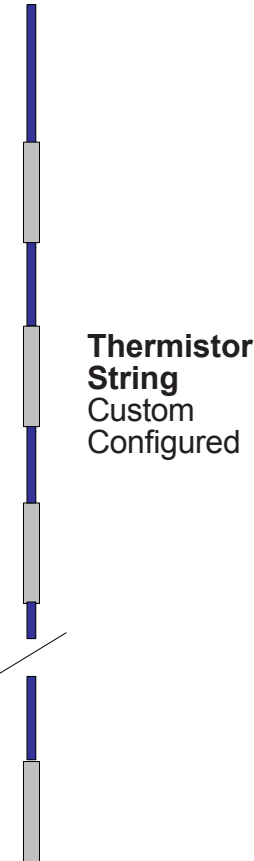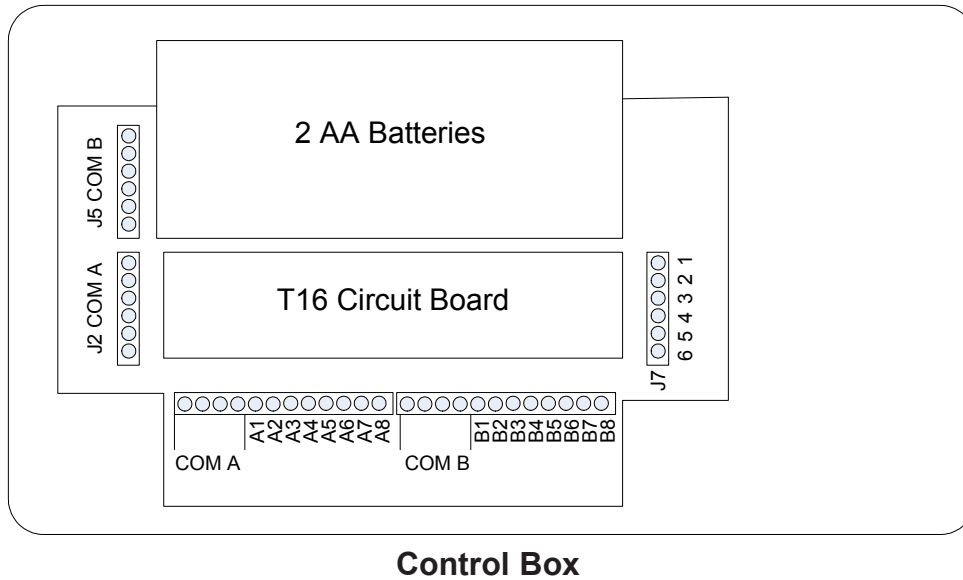## Instrumentation Northwest, Inc.
1-800-776-9355
http://www.inwusa.com

AquiStar® T16

SMART THERMISTOR STRING

WITH DATA LOGGING

DIMENSIONS and SPECIFICATIONS

2 AA Batteries

T16 Circuit Board

J5 COM B

J2 COM A

J7   6 5 4 3 2 1

A1 A2 A3 A4 A5 A6 A7 A8

B1 B2 B3 B4 B5 B6 B7 B8

COM A   COM B

Control Box

Thermistor String
Custom Configured

ORDERING INFORMATION

T16 SMART SENSOR

3C395 T16 Smart Sensor Control Box
3B570 Control Box with .1 Watt WaveData Radio
3B575 Control Box with .01 Watt WaveData Radio
3C396 30,000 ohm Thermistor Node
Contact INW for alternate thermistors

CABLE TYPES

6E540	9-Cond, PU	**6E546**	12-Cond, PU
6E542	9-Cond, HDPE	**6E547**	12-Cond, HDPE
6E544	9-Cond, Tefzel®	**6E548**	12-Cond, Tefzel®

Contact INW for custom cables

ACCESSORIES

3P902	2" well seal adaptor	**6E517**	Cable strain relief kit
3P904	4" well seal adaptor	**3B835**	Interface cable
6E517	Cable strain relief kit		
3B835	Interface cable		
3B830	RS485/RS232 adaptor w/Aqua4Plus software		

Contact INW for pipe mounting options

Information in this document is subject to change without notice.

MECHANICAL

ENCLOSURE

Enclosure Material	ABS - IP66/67
Dimensions (box)	5.5" x 3.1" x 2.6"
Dimensions (incl connectors)	6.0" x 3.1" x 2.6"
Wire Seal Materials	Fluorocarbon and Buna N

CABLE

Standard Cables	9- or 12-conductor shielded cable with polyurethane, polyethylene or Tefzel® cable
Cable diameter	.280"
Thermistor node diameter	.50"

OPERATING SPECIFICATIONS

TEMPERATURE

Accuracy	± 0.2° (at 25° C)
Resolution	0.1° C
Temperature Range	-35° C to 105 ° C *(depending on thermistor)*

POWER SUPPLY

Internal	2 AA Alkaline Batteries
Auxiliary	6 - 13 VDC, 15 mA

Instrumentation Northwest, Inc.

Sales and Service Locations
8902 122nd Avenue NE, Kirkland • Washington 98033 USA
(425) 822-4434 • (425) 822-8384 FAX • info@inwusa.com
4620 Northgate Boulevard, Suite 170 • Sacramento, California 95834
(916) 922-2900 • (916) 648-7766 FAX • inwsw@inwusa.com

1-800-776-9355
http://www.inwusa.com