



T32 SUBMERSIBLE SMART 1-WIRE TEMPERATURE SENSOR WITH DATALOGGING

Measure AND Record

Up to 32 channels of

Temperature data

with this easy-to-use

yet powerful and accurate

1-Wire Sensor!

Great almost anywhere you need to measure temperature—whether it be in a lake, in a tank, or in a well.



FEATURES

OVERVIEW

- Records temperature and time
- Up to 32 state-of-the-art 1-Wire sensors
- Accuracy $\pm 0.5^{\circ}\text{C}$ (from -10°C to $+85^{\circ}\text{C}$)
- Low power—2 internal AA batteries
- External power options (12 VDC) with AA's acting as backup

DATALOGGER

- Over 61,000 records
- Non-volatile memory—*data will not be lost in the event of a power failure*
- Flexible, multi-phase logging sequences—*save sequences to disk to reuse in the future*
- Pause logging feature—*temporarily pause the logging while repositioning or transporting sensor*
- Delayed start feature—*state a specific future start time, making it easy to set several sensors to start at the same time*
- Small diameter housing—0.75"

SENSOR STRING CABLING

- Light-weight cable—*sensors operate on a bus!*
- Choice of cable materials—*105° C PVC or FEP/Tefzel®*
- Up to 32 sensors per string—*at user specified locations*
- Up to 100 total feet of cable

NETWORKING

- Wireless connectivity—*radios and/or cellular*
- RS485 network—*allows several sensor sets to be networked together*

SOFTWARE—FREE, EASY-TO-USE

- Real time viewing
- Easy export to spreadsheets and databases
- Ability to update sensor via firmware while in the field—*great for future updates or custom development*



**Instrumentation
Northwest, Inc.**

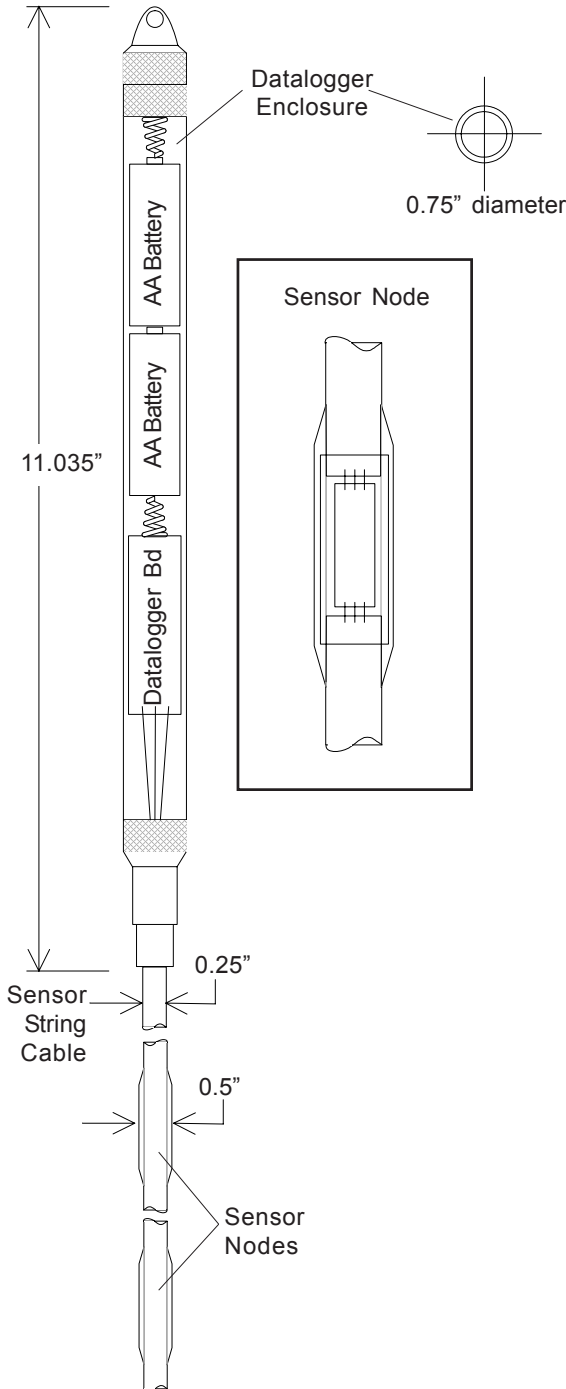
1-800-776-9355
<http://www.inwusa.com>



T32 SUBMERSIBLE

SMART 1-WIRE TEMPERATURE SENSOR

DIMENSIONS, SPECIFICATIONS, and ORDERING INFORMATION



DATALOGGER SPECIFICATIONS

MECHANICAL SPECIFICATIONS

Enclosure Material	316 stainless
Enclosure Dimensions	11.035" x 0.75"
Weight	.80 lbs.
Optional Cable - in place of cableless topcap	
Material	Polyurethane, Polyethylene, FEP, or Tefzel®
Maximum Length	2000 feet
Maximum OD	0.28 inches

OPERATING SPECIFICATIONS

Resolution	0.1°C
Temperature Range	-5°C to +60°C
Internal Power	2 AA Alkaline batteries (good for 500,000 records)
External Power (optional)	6-13 VDC, 15 mA

TEMPERATURE STRING SPECIFICATIONS

MECHANICAL SPECIFICATIONS

Standard Cable	
Material	105°C PVC or FEP/Tefzel®
Maximum Length	100 feet
Maximum OD	0.25 inches
Sensor Node OD	0.5 inches maximum
Break Strength	100 lbs

OPERATING SPECIFICATIONS

Max. Temperature Range	-55°C to +125°C
Accuracy	
-10°C to +85°C	± 0.5°C
-55°C to +125°C	± 2.0°C
Maximum Resolution	.06°C

ORDERING INFORMATION

T32 SMART SENSOR

3C420	T32 Smart Sensor Datalogger
3C421	Sensor Node

CABLE TYPES

6E560	5-Cond, PVC	Contact INW for custom cables
6E561	5-Cond, FEP/ Tefzel®	custom cables

ACCESSORIES

3P902	2" well seal adaptor
3P904	4" well seal adaptor
6E517	Cable strain relief kit
3B847	Serial Communication kit (Serial port to Sensor cabling, Aqua4Plus software media kit)
3B847	USB Communication kit (USB to Sensor cabling, Aqua4Plus software media kit)

Information in this document is subject to change without notice.

Instrumentation Northwest, Inc.

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