

SUTRON SDI-12 AquaTemp Submersible Temperature Sensor Instruction Manual

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SUTRON SDI-12 AquaTemp Submersible Temperature Sensor



Product Information

Specifications

• Confidential - Company Proprietary

Product Usage Instructions

Unpacking and Setup

Before using the product, follow these steps:

- 1. Remove the product from its packaging.
- 2. Check for any visible damage. If damaged, contact customer support.
- 3. Find a suitable location to place the product.
- 4. Ensure the product is connected to a power source.

Powering On the Product

To power on the product, follow these steps:

- 1. Locate the power button on the product.
- 2. Press and hold the power button for 3 seconds.
- 3. The product will start up and the LED indicator will turn on.

Product Configuration

To configure the product, follow these steps:

- 1. Connect the product to your computer using the provided USB cable.
- 2. Install the product configuration software on your computer.
- 3. Launch the configuration software and follow the on-screen instructions.
- 4. Customize the settings according to your preferences.
- 5. Save the configuration and disconnect the product from your computer.

Product Maintenance

To ensure optimal performance, perform regular maintenance on the product:

- 1. Clean the product surface with a soft, dry cloth.
- 2. Avoid using harsh chemicals or abrasive materials.
- 3. Keep the product away from direct sunlight and extreme temperatures.
- 4. Regularly check for software updates and install them as necessary.

troubleshooting

If you encounter any issues with the product, try the following troubleshooting steps:

- 1. Restart the product and see if the issue persists.
- 2. Check the product's user manual for specific troubleshooting guidelines.
- 3. Contact customer support for further assistance.

Frequently Asked Questions (FAQ)

Q: How do I reset the product to factory settings?

A: To reset the product to factory settings, follow these steps:

- 1. Power off the product.
- 2. Press and hold the reset button for 10 seconds.
- 3. The product will reset and all settings will be restored to default.

Q: Can I use the product with multiple devices?

A: Yes, the product can be used with multiple devices. Simply connect it to each device using the appropriate cables or wireless connections.

Overview

Sutron's AquaTemp submersible temperature sensor is a rugged SDI-12 sensor designed to measure the temperature of water, soil, and other liquids. The SDI-12 interface, high accuracy, and long-term reliability make it easy to add temperature monitoring to existing stations.



Aqua Temp-x ("" determines cable length)

Applications

- · Soil Temperature
- Streams
- Surface Water
- Stilling Wells
- Dams
- Aquaculture Tanks



Features

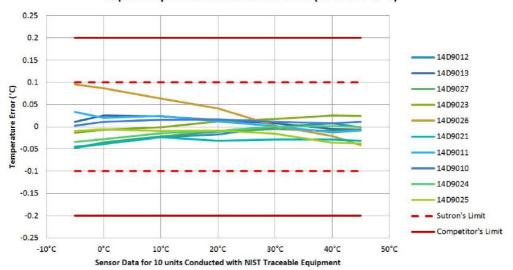
- SDI-12 Operation (V1.3)
- Tough UV-resistant, watertight polyurethane cable
- Stainless steel body with eyelet for weight or pull strings
- Flex fitting to protect cable
- Wide operating temperature range (-40° to +60°C)

EXCEPTIONAL ACCURACY ‡0.1°C (-5° TO +45°C)



Accuracy Comparison

AquaTemp Performance of 10 units (-5°C to +45°C)



Specifications

Measurement Interval	1 second to 24 hours
Units	Celsius, Fahrenheit
High Accuracy Temperature Sensor	±0.1°C (-5 to +45°C)
Temperature Resolution	0.01°C
Operating Range	-40 to +60°C
Quiescent Current	< 0.1 mA
Active Current	<5 mA
Input Voltage	7-16V
SDI-12 Operation	V1.3
Tough UV resistant polyurethane cable with waterblock	60 ft. standard
Diameter	0.63 inch

Models & Options

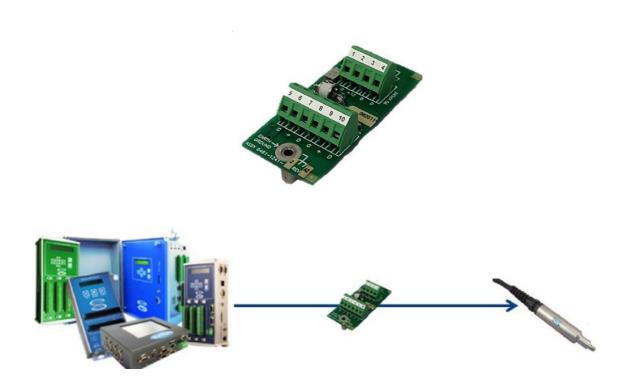
ORDERING	
Part Number	
AquaTemp-x	AquaTemp Submersible SDI-12 Temperature Sensor
Calibration Certificate	Optional add-on (Unit is calibrated with NIST traceable equipment)
V in the part number represents the number of feet of cable peeded: 60, 100, 150, 200, 300 or any	

X in the part number represents the number of feet of cable needed: 60, 100, 150, 200, 300 or any custom size the application requires. It is not recommended to go beyond 300 feet.



Recommended Accessories

SDI-12 Surge Protection Module (6461-1241) Although the AquaTemp is built with SDI-12 surge protection, Sutron recommends additional security through the SDI-12 Surge Protection Module.



- Multi-stage circuitry: Automatically resets after a surge
- Operating temperature:-40°C to +60°C
- Accepts wire sizes (input/output):26-14 AWG
- Series resistance (Analog 1/0):100 ohms
- Power handling:(8/20 uS) 20 kAmps
- Clamping voltage:36 V

Documents / Resources



<u>SUTRON SDI-12 AquaTemp Submersible Temperature Sensor</u> [pdf] Instruction Manual SDI-12, SDI-12 AquaTemp Submersible Temperature Sensor, AquaTemp Submersible Temper ature Sensor, Submersible Temperature Sensor, Temperature Sensor, Sensor

References

User Manual

Manuals+, Privacy Policy