

Sentinel ST

Pipe Temperature Sensor

Product ID (WiFi Device): XTEMP-3001-0001

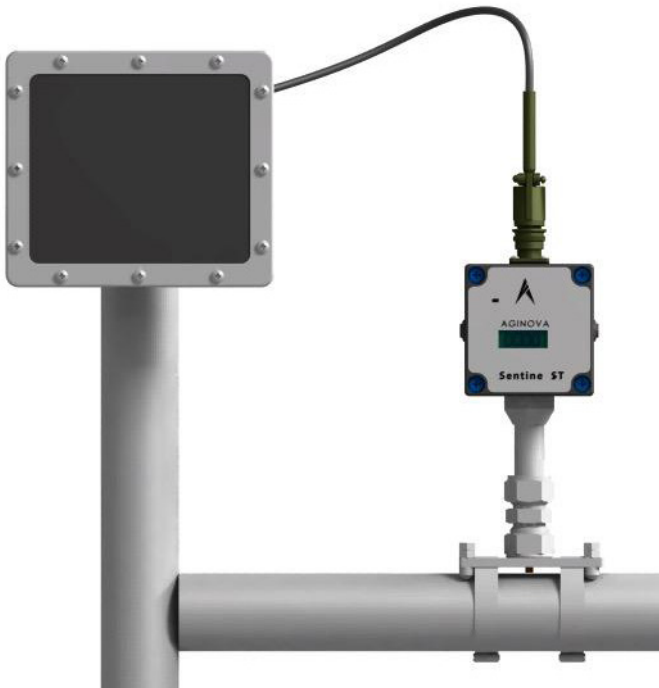
Product ID (RTD Probe): IPROBE-4103-0001

For easy installation anywhere, the Sentinel ST Pipe Temperature Sensor offers an industrial grade mounting fixture to provide an adaptable surface temperature measurement solution over a wide range of temperatures. This platinum, resistance temperature detector (RTD) sensor comes with a tip for improved response time and is an ideal solution for applications with high velocities, heavy liquids or particulates. The spring-loaded sensor ensures optimal surface contact for improved performance.

**Enclosure: NEMA 4X and better,
Polycarbonate flame retardant with IP65 rating**

Classification: CLASS 1 DIV 2

**Electronics: Low voltage device operating at 5V using LiPo battery
WiFi Communication: FCC and CE certified**



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Pipe Temperature Sensor

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Product ID (RTD Probe): IPROBE-4103-0001

SPECIFICATIONS	
Temp Range	-58°F to +158°F
Temp Accuracy	±0.25°C in the full range
Temp Resolution	0.01°C or °F
AC Power	Yes
Battery power	Yes
Solar Power	Yes
Battery Type	Rechargeable Li-Ion
Display	Yes
Datalogging Capacity	10,000+measurements
WiFi Protocol	IEEE 802.11b/g/n
Wi-Fi Models Supported	Wi-Fi Direct, Infrastructure, Remote
Wi-Fi Encryption	WEP, WPA/WPA2 Personal, PEAPv0, PEAPv1, EAP-TLS
On Board Data Storage	1 Week with a Once/Minute Sampling Rate
Operating Temperature	0°C to 40°C on Charger -20°C to 60°C on Battery only
Datalogging Capacity	10,000+measurements
Non-operating Temperature	-30°C to 70°C
Solar Panel	5V 2.5W
Rechargeable battery	LiPO 3.7V 3100mAh
Software to View Data	Cloud, Enterprise or App based solution available



Solar Charge Controller

The solar panel is enclosed in a weather resistant industrial box with adjustable mount capable of a wide variety of solar orientations. Swivel mounting fixture is flexible and designed for pole, rail or stanchion installations.

High-efficiency solar power management module designed for 5V solar panel. It features as MPPT (Maximum Power Point Tracking) function, maximizing the efficiency of the solar panel. The module also employs various protection functions for battery, solar panel and output, which greatly improves the stability and safety of the power supply system.

Solar panel specification

Solar power system composed of three elements
 5V 2.5W solar panel
 3.7V 3100mAh LiPo 18650 battery

