AiRISTA
Location. Insight. Visibility.

Temperature Sensors
TS1 & TS2 Temperature Sensors

Wi-Fi Temperature Tag for Remote Recording & Alerting

The AiRISTA temperature monitoring solution provides an automated way of measuring and monitoring temperature ranges using wireless transmitters. The solution automatically sends alerts when the temperature in a monitored storage unit, such as a freezer, refrigerator, or oven, goes outside of a predefined temperature range. Temperature measurements are transmitted wirelessly to the AiRISTA sofia software platform that provides alerts and historical trends.

The AiRISTA TS1 Temperature Sensor tag has an external probe that can be installed inside the unit where temperature is being measured. The AiRISTA TS2 Dual Temperature Sensor contains two separate probes for monitoring and measuring temperatures from the single sensor, which lowers the total cost of deployment. The AiRISTA TS1 and TS2 themselves always remain outside of the extreme temperatures allowing for easy maintenance and strong network connectivity. The optional NIST traceable probes can be used for both monitoring air and glycol solution temperatures. In case of network outages, sensors can locally store the temperature measurements and automatically provide the measurements to the application after the outage.

Benefits

- Serial cable programmable
- Supports WEP128, WPA-PSK (TKIP), WPA2-PSK (AES)
- Support for DHCP or static IP
- Optional external power adapter
- FCC, CE, and IC Class B compliant

Parameter	Standard RTD
Supported Wi-Fi Networks	802.11 b/g
Measuring Current	300 micro-Amp @ 2% duty cycle
RTD Power on Duty Cycle	2%
Resolution	0.1°C
Transmission Rate	User Programmable
Log Rate	User Programmable
Battery Life	Up to 157,680 Transmissions
Dimensions (enclosure)	4.65" x 2.85" x 1.0"
Weight	5.0 oz.
Probe Operating Temperatures	Std Probe: -40° to 221°F / -40° to 105°C (accuracy ±0.9°F / ±0.5°C) TP1: -76° to 302°F / -60° to 150°C (accuracy ±0.9°F / ±0.5°C) TP2: -328° to 257°F / -200° to 125°C (accuracy ±2.7°F / ±1.5°C)
Storage Temperatures	-40° to 60°C
Battery	3.6v Lithium Thionyl Chloride (2)
Part Numbers	
TS1	TS1
TS2	TS2
Standard Probe / NIST	TP / TP.NIST
Temp Probe TP1 / NIST	TP1 / TP1.NIST
Temp Probe TP2 / NIST	TP2 / TP2.NIST
Programming Cable	SPC
Mounting Bracket	TS.MB

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