



PN – Sensor: AD-2005-RTDTEMP



AVIDSmartSensor™ Wireless Temperature with Remote RTD 100 OHM

Features

- § Supports 4-wire remote 100-Ohm Platinum RTDs
- § Onboard calibration table provides linear output
- § Low current/duty cycle for reduced self heating
- § 30-Bit Unique ID
- § Up to 600 foot transmission range
- § Transmission intervals from 10 to 17 seconds random
- § Battery life up to 2 years
- § Very small (2.5" X 2.0" X 1") ABS Enclosure
- § Complies with part 15 of the FCC rules
- § Water resistant coating for wet environments
- § CRC-16 error checked Status, ID and Temperature
- § Internal Loop antenna
- § Standard and Extended RTD probes available
 - § Standard PN – **AD-2004-PROBE-STD**
 - § Extended PN – **AD-2004-PROBE-EXT**

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Sensors May be Enclosed in Explosion Proof Casing for More Industrial Type Applications

AVIDSmartSensors RTD Temperature sensor is a battery operated digital temperature sensor with a microprocessor controlled 418 MHz. FCC certified radio transmitter. The sensor has an on board clock that allows it to spend most of the time in a low power quiescent state. At predetermined time intervals the clock will wake up the onboard microprocessor. Onboard calibration tables provide a linear temperature output using an external 100-Ohm Platinum RTD.

This information is combined with a CRC-16 error check and transmitted in a very short data packet that results in a very short transmitter on-time. This architecture allows the AVIDSmartSensors RTD Temperature sensor to consume very low energy resulting in a battery life of up to 2 years.

A button on the top of the ABS cover permits a user to activate the service switch. When the service switch is pushed a data transmission occurs immediately and a special mark is introduced in the ID field of the transmitted data packet to indicate which sensor is in service or installation.

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Specifications

Parameter	Units
Measuring Current	300 micro Amp. @ 2% duty cycle
RTD Power On Duty Cycle	2%
Resolution	.1° C
Accuracy 60-125 ° C	+-.5° C
Accuracy 30-60 ° C	+-.3° C
Accuracy 0-30 ° C	+-.1° C
Accuracy (-50)-0 ° C	+-.3° C
Accuracy (-200)- (- 50) ° C	N/A
Transmission Rate	10-17 seconds
Battery Life	Up to 2 years
Dimensions (enclosure)	2.375"X1.875"X1.0"
Weight`	5.0 oz.
Storage Temperature	-40° to 85° C
Probe Operating Temperature	-50° to 125° C
Battery	3.6vdc Lithium
FCC Certified	FCC ID: M5ZP6EZIO



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