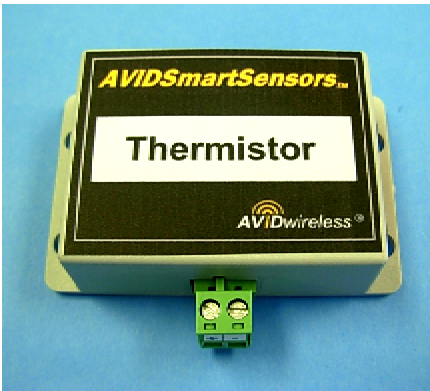


AVIDSmartSensors™ - Thermistor



AVIDSmartSensors Thermistor wireless transmitter is a battery operated 10K thermistor interface with a microprocessor controlled 418 MHz, FCC certified radio transmitter. The Sensor has an on board time of day 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. Unique serial number information is read from a Dallas Semiconductor 1-wire digital device and thermistor data is read from a 12-bit analog to digital converter. This information is combined with a CRC-16 error check and transmitted in a very short data packet that results in a transmitter on time of only 15 milliseconds. This architecture allows the Sensor to consume very low energy resulting in a battery life of up to 10 years.

Main Features

- § 10K thermistor transmitter
- § Transmits unique ID and thermistor data
- § Up to 600 foot transmission range
- § Transmission rates from 10 to 17 seconds random
- § Up to 100 transmitters can coexist
- § Battery lasts from 6 to 10 years
- § Very small (1.3" X 2.1" X .6") ABS Enclosure
- § Complies with part 15 of the FCC rules
- § Water resistant coating on PCB
- § CRC-16 checked Status, ID, and thermistor data
- § Internal Loop antenna

The electronics are coated with a conformal material that provides a moisture barrier against condensation. Submersion in water is not recommended. An external pushbutton in the top ABS cover activates the service switch. The Sensor is shipped with the transmitter turned off (anytime the Sensor is to be shipped the transmitter should be turned off or must be placed in a shielded container to prevent interference that might cause shipping problems). Start the Sensor by removing the paper strip from the battery and pressing 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.

Parameter	Units
Transmission Rate	10 – 17 Seconds Random
Shelf Life with Battery Installed	10 Years in Quiescent Mode
Dimensions (enclosure)	1.5 W X 2.1 H X .6 D (inches)
Weight	1.5 oz.
Operating Temperature	-40° to 85° C
Humidity	0% to 90% Non-Condensing
Battery Life with Transmission	6-10 Years with TX Period of 30-240 Seconds
Battery	3.6 volt Lithium
FCC Certified	M5ZWOWANA



AVIDwireless
2129 Martin Way, Ste 200
Bedford, TX 76021
817-510-5301

Email:
sales1@avidwireless.com
Website:
www.avidwireless.com