Wireless Immersion
Temperature Sensor

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NEMA 4X Enclosure

FT2630

Wireless Immersion Temperature Sensors

The FT2630 is a battery operated spread spectrum wireless immersion temperature sensor for fluid temperature applications. The sensor is encapsulated in a 0.25" O.D. 304 stainless steel probe. The sensor assembly has a ½" NPT fitting to be mounted into the thermowell. Thermowells with 304 stainless steel are available for different fluid applications. The maximum radio transmission distance is dependent on building type. The maximum open air transmission distance is one mile. In a typical commercial building with steel I-beam construction, concrete floors with reinforcing rod, and metal stud walls, it can be expected that transmissions will penetrate vertically through floors and horizontally through 200 to 500 feet of walls, furniture and air. The Meshnet900™ sensor Data-Link LED confirms the data transmission was received by the receiver for fast and reliable positioning of the sensor during installation. There is no need for special wireless installation equipment or site survey tools. Together with the Meshnet900™ receivers and controllers, the wireless sensors can be used with any LonWorks™, BACnet™, MODBUS, DDC system or panel.

The FT2630 is covered by ACI's Two (2) Year Limited Warranty. The warranty can be found in the front of ACI's Sensors & Transmitters catalog, as well as on ACI's web site, www.workaci.com.

SPECIFICATIONS

Input Voltage	Battery: One type 3.0V LiMNO2 1400 mAH (Duracell DL123A)
Temperature Sensor/Accuracy	Sensing Ranges: -40ºF to 200ºF Accuracy: +/- 1ºF
Transmitter Characteristics	Operating Frequency: 902-928 MHz, Transmitter Power: 11 dB
Open Field Range	One mile (line of sight)
Data Transmission Interval	75 seconds (standard), 300 seconds (optional)
Operating Temperature Range	14 to 140º F (-10 to 60º C)
Operating Humidity Range	5 to 95%, non-condensing
Product Dimensions	Standard Housing: (L) 4.63" (W) 3.13" (H) 1.75" NEMA 4X Housing: (L) 4.53" (W) 3.54" (H) 2.17"

ORDERING

Please select one Wireless Device (A), one Probe Length (B), one Thermowell (C) & one Transmission Interval (D).

A Wireless Device	B Probe Length	C Thermowell	D Intervals
○ **FT2630A** (Standard)	○ **02** (2.5")	○ **----** (None)	○ **----** (Every 75 Seconds)
○ **FT2630AE** (NEMA 4X Enclosure)	○ **04** (4")	○ **SS** (304 Stainless Steel)	○ **300** (Every 300 Seconds)
	○ **06** (6")		

BUILD PART NUMBER

After completing (A), (B), (C) & (D) from the above table, fill in the Part Number Table below. The "Range" is a factory default.
An example part number is offered.

	—		—		—	
A		B		C		D

EXAMPLE: FT2630A - 04 - SS

Wireless sensors should be installed within 200 to 500 feet of the receiver. RR2552 signal repeaters can be installed as needed to increase transmission distance between sensors and receivers as well as to setup your wireless mesh network within your building to improve your sensor reliability.

To select the proper sensor location, first install and power the receiver. Insert the battery into the sensor, being sure to observe polarity. The Meshnet900™ system does not require any additional wireless equipment to determine the proper location of the sensors. While the sensor is attempting to connect to the receiver, the Data-Link LED will blink rapidly 8-10 times every 10 seconds. Once a connection has been established, the Data-Link LED will blink once every 75 seconds. The Data-Link LED will continue to blink once for every successful data transmission. The data transmission rate, normally 75-second intervals, is programmed into the sensor. To manually initiate a data transmission, press the push button switch located by the negative terminal of the battery.

The sensor probe must be installed into a thermowell. The thermowell should be mounted either horizontally or in a position that will allow any condensation to drain. Use thermal compound to ensure effective heat transfer. Ensure the thermowell does not make contact with the inside wall of the pipe. Locate and record the sensor TXID numbers located on a label on the inside of the enclosure cover.