



*Wireless Duct
Temperature Sensor
NEMA 4X Enclosure*

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Temperature Sensor*

DT2630

Wireless Duct Temperature Sensors

The DT2630 is a battery operated spread spectrum wireless duct temperature sensor. The sensor is encapsulated in a 0.25" O.D. 304 stainless steel probe with various probe lengths (4", 6", 8" 12" & 18") for single point duct temperature monitoring. Meshnet900™ wireless sensors utilize reliable Spread Spectrum Radio technology. They can be installed easily in minutes eliminating hundreds of feet of wire and saving installation cost while reducing installation labor risks. 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 tool. Together with the Meshnet900™ receivers and controllers, these wireless sensors can be used with any LonWorks™, BACnet™, MODBUS communication protocols, or DDC system. The maximum radio transmission distance is dependent on building architecture and layout. The maximum open air transmission distance is one mile. In a typical commercial building with steel I-beam construction, concrete floors with reinforcing rods, and metal stud walls, it can be expected that transmissions will penetrate vertically one floor above and below the location of the sensor and horizontally through 200 to 500 feet of walls, furniture and air.

The DT2630 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: -40 to 200°F Accuracy: +/- 1°F, 12 Bit Resolution
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 140°F (-10 to 60°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 Transmission Interval (C).

A Wireless Device	B Probe Length	C Intervals
<input type="radio"/> DT2630A (Wireless Duct Temperature Sensor)	<input type="radio"/> 04 (4")	<input type="radio"/> ---- (Every 75 Seconds)
<input type="radio"/> DT2630AE (Wireless Duct Temperature Sensor) (NEMA 4X Enclosure)	<input type="radio"/> 06 (6")	<input type="radio"/> 300 (Every 300 Seconds)
	<input type="radio"/> 08 (8")	
	<input type="radio"/> 12 (12")	
	<input type="radio"/> 18 (18")	

BUILD PART NUMBER

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

A	B	C
EXAMPLE: DT2630A	- 04	- 300

Wireless duct 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.

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. 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.

Locate and record the wall sensor TXID Number located on a label on the back of the subbase prior to mounting.