



OST2630

Wireless Compact Outside Air Temperature Sensor

The OST2630 is a battery operated compact wireless outside air temperature sensor. The sensor is housed in a NEMA 4X enclosure and can be mounted anywhere in the shaded area outside of a building. If needed, the distance from the sensor to the receivers can be extended using the RR2552 repeater. 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, these wireless sensors can be used with any LonWorks™, BACnet™, MODBUS, DDC system or panel. 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 OST2630 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)	
Sensing Accuracy	Sensing Ranges: -40°F to 200°F	Accuracy: +/- 1°F
Transmitter Characteristics	Operating Frequency: 902-928 MHz	Transmitter Power: 11 dBm Receiver Sensitivity: -110 dBm
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% RH, non-condensing	
Product Dimensions	(L) 4.53" x (W) 2.56" (H) 2.17"	

ORDERING

Please select OST2630A as a Wireless Device (A) & one Transmission Interval (B).

A Wireless Device	B Intervals
<input type="radio"/> OST2630A (Compact Outside Air Temperature Sensor) (NEMA 4X Enclosure)	<input type="radio"/> ---- (Every 75 Seconds)
	<input type="radio"/> 300 (Every 300 Seconds)

BUILD PART NUMBER

After completing (A) & (B) from the above table, fill in the Part Number Table below. An "example" part number is offered.

A	B
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EXAMPLE: OST2630A

Wireless outside air 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. Mount the OST2630 sensor on any flat surface outside using four #8 screws.

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.

The sensor should be installed in the shaded area away from the sun & rain, preferably in the north side of the building. For proper performance, the sensor should be oriented with the sensing probe pointing down.