

FX-WRZTTB00-5 Handheld Temperature Room Sensor

Description

The FX-WRZ Handheld Temperature Room Sensor is designed to sense room and zone temperature and transmit wireless temperature control data. The sensor needs to be securely mounted with its tether cord to an object that remains in the room. Mounting the sensor to the head wall system with the tether cord is the preferred method.

In an FX-ZFR Series Wireless Field Bus System application, the sensors communicate wirelessly with FX-PC Series Controllers by means of the FX-ZFR1811 Router.

In wired field bus applications, the sensors communicate with an FX-WRZ78xx Wireless Receiver. The FX-WRZ78xx Receiver transfers data to the controller by means of the Sensor Actuator (SA) communication bus. In a typical application, one FX-WRZ Series Sensor reports to one FX-WRZ78xx Receiver, but up to five FX-WRZ Series Sensors can be associated with a single FX-WRZ78xx Receiver for multi-sensor averaging or high/low temperature selection.

The FX-WRZ Handheld Temperature Room Sensor comes with an LCD. The FX-WRZ Sensor can transmit sensed temperature, setpoint temperature, occupancy status, signal strength, and low battery conditions to an associated router or receiver. The FX-WRZ Sensor is designed for indoor, intra-building applications only.

The FX-WRZ Sensor uses direct-sequence, spread-spectrum RF technology, and operates on the 2.4 GHz Industrial, Scientific, and Medical (ISM) band. The receiver meets the IEEE 802.15.4 standard for low power, low duty cycle RF transmitting systems.

Refer to the *FX-WRZTTB00-5 Handheld Temperature Room Sensor Product Bulletin (LIT-12011898)* for important product application information.

Features

- Flexible Installation and Relocation
- Easy-to-Clean Plastic Surface
- Reduced Labor Costs
- Intuitive Temperature Selection Interface
- LCD Temperature Display
- High-Accuracy Temperature Sensor
- Wireless Signal Strength and Low Battery Condition Mapping
- Optional, Battery-Powered FX-WRZSST-120 Wireless System Survey Tool



FX-WRZ Series Wireless Room Sensors

Repair Information

If the FX-WRZ Wireless Room Sensor fails to operate within its specifications, replace the unit. For a replacement sensor, contact the nearest Johnson Controls® representative.

Accessories Ordering Information

Code Number	Product Description
FX-WRZSST-120	Wireless Sensing System Tool: For Use with an FX-WRZ Handheld Temperature Room Sensor, to Function as a Site Survey Tool for the FX-WRZ78xx-0 One-to-One Room Temperature Sensing System, or for the FX-ZFR1800 Wireless Field Bus System
T-4000-119	Allen-Head Adjustment Tool: 1/16 in. (1.6 mm), 30 Tools per Bag

Technical Specifications

FX-WRZTTB00-5 Handheld Temperature Room Sensor (Part 1 of 2)	
Product Description	Handheld Temperature Sensor with Display, Temperature Increase and Decrease Buttons, Tether Cord, and Manual Occupancy Override Button
Power Requirements	3 VDC Supplied by Two 1.5 VDC AA Alkaline Batteries (Included with Sensor); Typical Battery Life: 48 Months (36 Months Minimum)
Addressing	DIP Switches, Field Adjustable. MS/TP Address, Network Number, and Zone Address
Ambient Conditions	Operating: 32 to 122°F (0 to 50°C), 5 to 95% RH, Noncondensing Storage: -40 to 160°F (-40 to 71°C), 5 to 95% RH, Noncondensing
Wireless Band	Direct-Sequence Spread-Spectrum, 2.4 GHz ISM Band
Transmission Power	10 mW Maximum
Transmission Range	100 ft (30 m) Maximum Line of Sight; 50 ft (15 m) Recommended
Transmissions	Every 60 Seconds (±20 Seconds)
Temperature System Accuracy	1.0F°/0.6C° Over the Range of 55 to 85°F (13 to 29°C); 1.5F°/0.9C° Over a Range of 32 to 55°F (0 to 13°C) and 85 to 110°F (29 to 43°C)
Temperature Sensor Type	Internal 10k ohm Negative Temperature Coefficient (NTC) Thermistor
Materials	NEMA 1 White Plastic Housing
Dimensions	4.7 x 3.1 x 1.5 in. (120 x 80 x 38 mm)
Shipping Weight	0.3 lb (0.14 kg)

