

TE-7800 Series

One-to-One Wireless Room Temperature Sensing System

Description

The TE-7800 Series One-to-One Wireless Room Temperature Sensing System is designed to interface with supported Johnson Controls® field controllers to provide wireless temperature monitoring and control of single-zone, room temperature applications.

A simple One-to-One wireless sensing system consists of one WRS-TTx Series Wireless Room Temperature Sensor communicating single-zone temperature data to an associated TE-7800 Series Receiver. Up to four sensors can report to a single receiver to provide enhanced zone control.

- A TE-7820-x Series Receiver interfaces with a single Johnson Controls VMA1400 Series Controller.
- A TE-7830-x Series Receiver interfaces with a single Johnson Controls AS-AHU, AS-UNT, AS-VAV, DX9100, or FXxx Series Controller.

The TE-7800 Series Receivers operate at 2.4 GHz and use a multiple-frequency, Direct-Sequence Spread-Spectrum (DSSS) technology to virtually eliminate accidental and unauthorized Radio Frequency (RF) interference with other wireless applications. The One-to-One design meets the Institute of Electrical and Electronics Engineers, Inc. (IEEE) 802.15.4 standard for low power, low duty-cycle wireless RF systems.

Refer to the *TE-7800 Series One-to-One* Wireless Room Temperature Sensing System Product Bulletin (LIT-12011096) for important product application information.

Features

- One-to-One wireless RF design enables quick, economical, and low-maintenance installations, which reduce installation and wiring costs.
- stylish, lightweight wireless room temperature sensors with occupancy override button and 60-second transmission intervals — are easy-to-install and provide room temperature, set point temperature, occupancy status, and low battery conditions to Metasys® system field controllers. Transmission intervals greatly extend sensor battery life, and enable continuous operation over the life of the batteries (approximately 5 years) while maintaining an even temperature in the controlled zones.

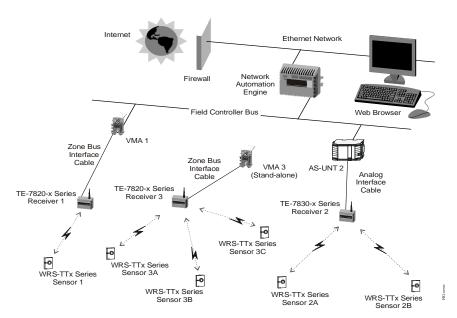
- integral wireless signal strength testing built into sensors and receivers — provides quick, easy, visual indication of the wireless RF signal strength between a sensor and associated receiver, helps locate optimum device positions during installation and aids troubleshooting.
- multiple sensor temperature averaging and high/low selection — enhance zone temperature control by enabling up to four sensors to report to a single receiver, which can be set to average the sensor temperature or select the highest or lowest temperature value to control the zone.
- compact, easy-to-install TE-7800 Series Receiver — receives sensed temperature, set point, and low battery condition from WRS-TTx Series Sensors and interfaces directly with a Metasys system field controller.
- optional, battery-powered WRS-SST Series Wireless Sensing System Tools connect to a laptop computer and allow you to quickly and easily determine RF signal strength, system temperature values, and the optimum device locations in your application.



WRS-TTx Series Wireless Room Temperature Sensor, TE-7820-x Series Receiver, and TE-7830-x Series Receiver for the One-to-One Wireless Room Temperature Sensing System

Repair Information

If the TE-7800 Series One-to-One Wireless Room Temperature Sensing System fails to operate within its specifications, replace the system. For a replacement system, contact the nearest Johnson Controls representative.



One-to-One Wireless Room Temperature Sensing Applications



TE-7800 Series One-to-One Wireless Room Temperature Sensing System (Continued)

Selection Chart

| Product Code Number | Product Description |
|---------------------|--|
| TE-7820 <i>-</i> 0 | Receiver with Zone Bus Interface for One-to-One Wireless Room Temperature Sensing System, Interfaces with VMA1400 Series Controllers (Only), Includes 1.8 m (6 ft) Zone Bus Interface Cable and Omnidirectional Antenna, 15 dBm Transmission Power |
| TE-7820 <i>-</i> 1 | Receiver with Zone Bus Interface for One-to-One Wireless Room Temperature Sensing System, Interfaces with VMA1400 Series Controllers (Only), Includes 1.8 m (6 ft) Zone Bus Interface Cable and Omnidirectional Antenna, 10 dBm Transmission Power (CE Mark) |
| TE-7830-0 | Receiver with Analog Interface for One to One Wireless Room Temperature Sensing System, Interfaces with Specified Analog Digital Controllers (Johnson Controls AS-AHU, AS-UNT, AS-VAV, DX-9100, or FXxx Series Controllers), Includes 1.8 m (6 ft) Analog Interface Cable and Omnidirectional Antenna, 15 dBm Transmission Power |
| TE-7830-1 | Receiver with Analog Interface for One to One Wireless Room Temperature Sensing System, Interfaces with Specified Analog Digital Controllers (Johnson Controls AS-AHU, AS-UNT, AS-VAV, DX-9100, or FXxx Series Controllers), Includes 1.8 m (6 ft) Analog Interface Cable and Omnidirectional Antenna, 10 dBm Transmission Power (CE Mark) |
| WRS-TTP0000-0 | Wireless Room Temperature Sensor, Warmer/Cooler (+/-) Set Point Adjustment, 15 dBm Transmission Power |
| WRS-TTP0000-1 | Wireless Room Temperature Sensor, Warmer/Cooler (+/-) Set Point Adjustment, 10 dBm Transmission Power (CE Mark) |
| WRS-TTR0000-0 | Wireless Room Temperature Sensor, No Set Point Adjustment, 15 dBm Transmission Power |
| WRS-TTR0000-1 | Wireless Room Temperature Sensor, No Set Point Adjustment, 10 dBm Transmission Power (CE Mark) |
| WRS-TTS0000-0 | Wireless Room Temperature Sensor, Set Point Adjustment Scale: 13 to 29°C/55 to 85°F, 15 dBm Transmission Power |
| WRS-TTS0000-1 | Wireless Room Temperature Sensor, Set Point Adjustment Scale: 13 to 29°C/55 to 85°F, 10 dBm Transmission Power (CE Mark) |

Accessories

| Product Code Number | Product Description |
|-----------------------|---|
| WRS-SST-100 | Wireless Sensing System Tool Designed to Associate with WRS-TTx Series Sensors and Provide RF Signal Strength and System Temperature Information, 15 dBm Transmission Power |
| WRS-SST-101 | Wireless Sensing System Tool Designed to Associate with WRS-TTx Series Sensors and Provide RF Signal Strength and System Temperature Information, 10 dBm Transmission Power (CE Mark) |
| CBL-STAT25 | 7.6 m (25 ft) Interface Cable to Connect Zone Bus between TE-7820-x Series Receiver and Johnson Controls VMA1400 Series Controllers (Does Not Include Power Cable) |
| CBL-STAT50 | 15.2 m (50 ft) Interface Cable to Connect Zone Bus between TE-7820-x Series Receiver and Johnson Controls VMA1400 Series Controllers (Does Not Include Power Cable) |
| CBL-STAT75 | 22.9 m (75 ft) Interface Cable to Connect Zone Bus between TE-7820-x Series Receiver and Johnson Controls VMA1400 Series Controllers (Does Not Include Power Cable) |
| CBL-STAT100 | 30.5 m (100 ft) Interface Cable to Connect Zone Bus between TE-7820-x Series Receiver and Johnson Controls VMA1400 Series Controllers (Does Not Include Power Cable) |
| T-4000-119 | Allen-Head Adjustment Tool (30 per Bag) |
| TP-2420 | Transformer, Wall Plug Mount, 120 VAC Primary to 24 VAC Secondary, 20 VA, Class 2 |
| Y65T31-0 ¹ | Transformer, 120/208/240 VAC Primary to 24 VAC Secondary, 40 VA, Foot Mount, 8 in. Primary Leads and Secondary Screw Terminals, Class 2 |

^{1.} Additional Y60 Series Transformers are also available from Johnson Controls.

Technical Specifications

| TE-7800 Series Receivers (Part 1 of 2) | | |
|--|---|--|
| Product Codes | TE-7820-x Series Receivers for One-to-One Zone Bus Interface Applications TE-7830-x Series Receivers for One-to-One 0 to 5 VDC Analog Interface Applications | |
| Field Controller Interface | TE-7820-x Series Receivers: Power and Zone Bus Interface between TE-7820-x Series Receiver and VMA1400 Series Controller TE-7830-x Series Receivers: Power and 0 to 5 VDC Analog Interface between TE-7830-x Series Receiver and AS-AHU, AS-UNT, AS-VAV, DX-9100, and FXxx Series Controller | |
| Power Requirements | 24 VAC (+10%/-15%), 50/60 Hz, 4.5 VA (Minimum) Class 2 Power Supply | |
| Addressing | TE-7820-x Series Receivers: DIP Switches, Field Adjustable for up to 510 Unique Addresses; For Addresses 0 and 511, the TE-7820-x Series Receiver Matches the N2 Address of the Associated VMA1400 Series Controller for its Actual Address TE-7830-x Series Receivers: DIP Switches, Field Adjustable for up to 510 Unique Addresses; Addresses 0 and 511 are Invalid | |
| Ambient Operating Temperature Limits | 0 to 50°C (32 to 122°F) | |
| Ambient Operating Humidity Limits | 0 to 95% RH, Noncondensing | |
| Ambient Storage Temperature Limits | -40 to 71°C (-40 to 160°F) | |



TE-7800 Series One-to-One Wireless Room Temperature Sensing System (Continued)

| TE-7800 Series Receivers (Part 2 of 2) |
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| 5 to 90% RH, Noncondensing |
| Direct-Sequence Spread-Spectrum, 2.4 GHz ISM Bands |
| TE-78x0-0 Series Receivers: 152 m (500 ft) Maximum Indoor Line-of-Sight; |
| 61 m (200 ft) Practical Average Indoor |
| TE-78x0-1 Series Receivers: 114 m (375 ft) Maximum Indoor Line-of-Sight; 50 m (165 ft) Practical Average Indoor |
| Every 60 Seconds (±20 Seconds) |
| TE-7820-x Series Receivers: One Zone Bus Output for Temperature, Set Point, Field Strength Measurements, and |
| Low Battery Indication |
| TE-7830-x Series Receivers: Two Analog Outputs for Zone Temperature and Set Point: 0 to 5 VDC, 2 mA Maximum; Two Binary Outputs for Occupancy and Low Battery: Dry Contacts Rated for 24 VAC, 50 mA Maximum |
| 0.6C° (1F°) Over a Range of 13 to 29°C (55 to 85°F); 0.9C° (1.5F°) Over the Ranges of 0 to 13°C (32 to 55°F) and 29 to 43°C (85 to 110°F) |
| Internal 10k ohm Negative Temperature Coefficient (NTC) Thermistor |
| TE-7820-x Series Receivers: One Two-Position Terminal Block for 24 VAC Class 2 Supply Power and One Zone |
| Bus Port |
| TE-7830-x Series Receivers: One Two-Position Terminal Block for 24 VAC Class 2 Supply Power, One Three-Position Terminal Block for Occupancy and Low Battery Binary Input Relays, and One Three-Position Terminal Block for Zone Temperature and Set Point Temperature Outputs |
| Gray Plastic Housing with UL94-5VB Flammability Rating |
| Screw Mount; Four No. 6 Pan-Head Sheet-Metal Screws Included |
| TE-7800 Series Receivers: 146 x 122 x 52 mm (5.8 x 4.8 x 2.1 in.) |
| Omnidirectional Antenna Length: 140 mm (5.5 in.) |
| 0.45 kg (1.0 lb) |
| United States: Intended for NEC Class 2 Connection |
| UL Listed, File E107041, CCN PAZX |
| UL 94-5VB Flammability Rating |
| FCC Compliant to CFR 47, Part 15, Subpart B, Class A |
| Transmission Complies with FCC Part 15.247 Regulations for Low Power Unlicensed Transmitters |
| Receiver Radio Module FCC Identification: CB2-TMPSENS2400A |
| Canada: Intended for CEC Class 2 Connection |
| UL Listed, File E107041, CCN PAZX7 |
| UL 94-5VB Flammability Rating |
| Industry Canada IC: 279A-RFMOD24A |
| Australia and New Zealand: Australia/NZ Emissions Compliant (C-Tick Mark) |
| |
| European Union: CE Mark – EMC Directive 89/336/EEC, Radio Telecommunications Terminal Equipment Directive 99/5/EC |
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One-to-One Wireless Room Temperature Sensing System (Continued)

| WRS-TTx Series Sensors (Part 2 of 2) | | |
|--|--|--|
| Sensor Type | Internal 10K ohm NTC Thermistor | |
| Materials | NEMA 1 White Plastic Housing | |
| Mounting | Screw Mount, Double-Sided Adhesive Foam Tape Mount; Mounting Screws, Plastic Anchors, and Double-Sided Adhesive Foam Tape Included | |
| Dimensions | 120 x 80 x 38 mm (4.7 x 3.1 x 1.5 in.) | |
| Shipping Weight | 0.14 kg (0.3 lb) | |
| Compliance (WRS-TTx0000-0 Series Sensors) | United States: Transmission Complies with FCC Part 15.247 Regulations for Low Power Unlicensed Transmitters Transmitter FCC Identification: CB2-TMPSENS2400A | |
| | Canada: Industry Canada IC: 279A -TSENS24A | |
| | Australia and New Zealand Australia/NZ Emissions Compliant (C-Tick Mark) | |
| Compliance (WRS-TTx0000-1 Series Sensors) | European Union: CE Mark – EMC Directive 89/336/EEC, Radio Telecommunications Terminal Equipment Directive 99/5/EC | |
| | South Africa: Accepts Directives for Europe | |