

# Temperature Sensors

## TR20 Series Wireless Wall Sensors



**Application Type:** Wall Module

**Color:** White

**Dimensions, Approximate:** 4 11/16 in. high x 3 in. wide x 7/8 in. deep  
(119 mm high x 77 mm wide x 22 mm deep)

**Operating Temperature Range:** 45 F to 99 F (7 C to 37 C)

**Setpoint Temperature Range:** 55 F to 85 F (13 C to 30 C)

**Temperature Sensor Accuracy:** ± 1 F across 53.6 F to 86 F  
(± 0.5 C across 12 C to 30 C)

**Shipping Temperature Range:** -40 F to +150 F (-40 to + 65.5 C)

**Operating Humidity Range (% RH):** 5 to 95% RH, non-condensing

**Mounting:** Wall mount

**TR21-WS and TR23-WS sensors are a family of wireless wall modules. All models report space temperature; TR23 models come with setpoint adjustment and override.**

- Wall module to Receiver (point to point) wireless kits can replace any standard wired sensor
- Wireless Kits (wall module and receiver) are pre bound at the factory for quick installation
- Signal Strength LED built into the wall module
- Low battery indication
- Optional dip switches available to bind any wall module to any receiver
- Approximate 5 year battery life with AA Alkaline (included), 7.5 year with Lithium
- Locking screw discourages tampering and battery theft

**Battery Life:** 5 years with two AA Alkaline batteries (included)  
7.5 years with two AA Lithium Batteries

**Radio Frequency:** 2.4 GHz (IEEE Std 802.15.4-2003 compliant)

**Open Range:** 3000 feet

**Typical Range:** 100 feet

**Comments:** not compatible with TB7220, TB8220, TB line voltage thermostats, XL15s, W7762, W7763

**Used With:** Spyder, Excel 10 W7750, W7751, W7752, W7753, T7350, T7351, TB8575, WEBs-AX6 I/O Module

**Approvals**

**Federal Communications Commission:** FCC Part 15

**Underwriters Laboratories, Inc:** UL94 plastic enclosure

Product Number	Description	Includes
TR21-WS/U	TR21 wireless temperature sensor	Honeywell logo
TR21-WSU/U	TR21 Wireless Temp Sensor without Honeywell logo	—
TR23-WS/U	TR23 Wireless temperature sensor with Setpoint (F/C/Relative) and override button	Selectable Setpoint dials in Fahrenheit, Celsius, and Relative (- to +), and Override Button; Honeywell logo
TR23-WSU/U	TR23 Wireless temperature sensor, with Setpoint (F/C/Relative) and override button, no Honeywell logo	Selectable Setpoint dials in Fahrenheit, Celsius, and Relative (- to +), and Override Button

## TR20 Series Wireless Wall Modules



**Application:** Receiver

**Application Type:** Wireless Receiver

**Dimensions, Approximate:**

5 1/2 in. high x 3 13/64 in. wide x 2 13/64 in. deep  
(140 mm high x 81 mm wide x 56 mm deep)

**Operating Temperature Range:** -40 to +150 F (-40 to + 65.5 C)

**Shipping Temperature Range:** -40 F to +150 F (-40 to + 65.5 C)

**Operating Humidity Range (% RH):** 5 to 95% RH, non-condensing

**The WRECVR receiver and TR21-WS, TR23-WS, TR21-WK, and TR23-WK sensors are a family of wireless wall modules and receivers.**

- Wall module to Receiver (point to point) wireless kits can replace any standard wired sensor
- Wireless Kits (wall module and receiver) are pre bound at the factory for quick installation
- Signal Strength LED built into the wall module
- Low battery indication
- Optional dip switches available to bind any wall module to any receiver

**Receiver Voltage:** 20-30 Vac/dc, 50/60Hz; 24 Vac typical

**Radio Frequency:** 2.4 GHz (IEEE Std 802.15.4-2003 compliant)

**Open Range:** 3000 feet

**Typical Range:** 100 feet

**Approvals**

**Federal Communications Commission:** FCC Part 15

**Underwriters Laboratories, Inc:** UL94-5VA

Product Number	Comments	Includes	Used With	Description
WRECVR/U	—	Honeywell Logo	TR21-WS, TR23-WS	Receiver used with wireless temperature sensors
WRECVRU/U	no Honeywell logo	—	TR21-WSU, TR23-WSU	Receiver used with wireless temperature sensors