

WIRELESS

MESHNET900™ WIRELESS TEMPERATURE & HUMIDITY WALL TRANSMITTERS WT2630, WH2630

DESCRIPTION

The ACI Meshnet900™ WT2630 wireless temperature sensors and WH2630 Wireless Humidity Sensors are programmed with unique transmitter IDs so that individual room information can be identified. No field programming required.

The override button (B & C models only) located on the side of the sensor housing can be assigned to a digital output in the Meshnet family of receivers for occupancy override or similar applications.

The setpoint adjustment (B Model only) can be assigned to an analog output in a Meshnet receiver. The output will then be used by a controller temperature setpoint or other applications such as dimming of light, and window blinds control.

FEATURES

- **Battery powered sensors (Battery included)**
- **No wiring and no calibration required**
- **Set point slider and override button optional**
- **Mesh Network - easy to install and relocate sensors**
- **Sensor Data-Link LED confirms connection**
- **Long battery life (approximately 4 to 5 years)**
- **Low battery LED plus remote low battery alarm**



**WT2630
(Battery Included)**



**WH2630
(Battery Included)**



SPECIFICATIONS

DEVICE OPERATION

Supply Voltage	Lithium 3.0V 1400 mAh
Batteries	Duracell, DL123A, (Included)
Battery Life	4-5 years @75 second intervals
Sensor Type	Temperature, 20K-2 thermistor internal
Optional	Humidity, Capacitive, internal
Probe length	
DT2630	1/4" dia x (4", 6", 8", 12", 18") length per order
DH2630	3/4" dia x 9.75" long
Transmitted Range Value	
DT2630A Temp. Overall Range	25° to 150°F, (-3° to 65°C)
DT2630B Temp. Overall Range	-40° to 160°F (-40° to 71°C)
DH2630, RH & T Overall Range	0-100% RH, -40° to 200°F
Transmitted Accuracy	
Temperature	±1.0°F (±0.55°C)
RH	3% Capacitive, 10-90% @77°F
Indication	LED on Transmit and data link conformation LED on Low battery
A/D resolution	12 bit (4095 counts)
Mounting	Direct to duct w/tabs
Wiring	None
Operating Temperature	14° to 140°F (-10° to 60°C)
Operating Humidity	0 to 95% RH (non-condensing)
Construction	Polycarbonate Plastic, UL94 V-0
Enclosure Rating	IP54
Dimensions	1.75"H x 3.0"W x 5.0"D, Probe Ø0.25" (4.44 x 7.92 x 14.6 cm)
Weight	1.2 lb (0.54 Kg)
Warranty	1 year

RADIO TRANSMITTER

Protocol	Proprietary (ACI), IEEE 802.15.4-2003/2006 Data-Link LED confirms receiver reception 902-928 MHz
Frequency	1
Channel Network	1
Modulation	Direct Sequence Spread Spectrum (DSSS)
Transmit Power	11.2 mW (11 dBm)
Receiver Sensitivity	-110db
Open Air Range	5,280 ft (1,600m) Open air 200'- 500' (61-152m) in building
Low Battery Indication	Yes, LED
Transmission time	20ms
Transmission Interval	75 seconds standarD (Can be factory programmed at 300 sec)
Antenna	Internal
Channels	One
Device Addresses	100 transmissions per minute
Programming	Program cable & laptop (free SW)
Repeater Capable	Yes, (can increase open air range x2)
Compliance	FCC ID# T4F061213RSO, RoHS



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INSTALLATION

CAUTION:

Sensors, repeaters and receivers should NOT be installed in the following area as transmission distance and performance will be drastically reduced:

- Inside metal enclosure or panel

CAUTION:

Do not use this product in any safety related applications where human life may be affected.

SENSOR LOCATION

Wireless wall sensors should be installed within 200 to 500 feet of the receiver or repeater. RR2552 signal repeaters can be installed as needed to increase transmission distance another 200 to 500 ft between sensors and receivers. Multiple repeaters may be installed.

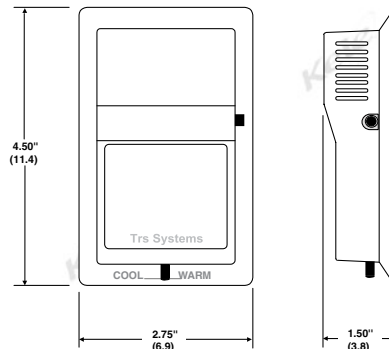
To select the proper sensor location first install and power the receiver. Observing polarity, insert the battery into the sensor to activate it.

Once the sensor location has been determined, mount the sub base on an inside wall approximately 4.5 ft. from the floor (or in the specified location) to allow exposure to the average zone temperature using two #8 screws, Velcro or double sided tape. Attach the wall sensor to the sub base by tightening the two locking screws at the bottom of the sub base.

Locate and record the wall sensor ID Number located on a label on the back of the sub base prior to mounting.

DIMENSIONS

in
(cm)



ORDERING INFORMATION

MODEL	DESCRIPTION
WT2630A-K	Wall temperature transmitter
WT2630B-K	Wall temperature transmitter with set point adjustment and override push button
WT2630C-K	Wall temperature transmitter with override push button
WT2630AR	Ruggedized wall temperature transmitter
WT2630ARD	Ruggedized wall temperature transmitter with external link button
WH2630A	Wall humidity transmitter
WH2630B	Wall temperature and humidity transmitter