

# NETWORK & WIRELESS

## FRONTIER 2.0 WIRELESS HUMIDITY AND TEMPERATURE WALL SENSOR WH2630



### DESCRIPTION

The Frontier 2.0 WH2630 wireless humidity and temperature sensors are programmed with unique transmitter IDs so that individual room information can be identified. No field programming is required. The sensors are available with 3% accuracy.

A Data-Link LED is used to confirm the receiver has received the data transmission. This eliminates the need for special wireless installation equipment or tools and allows for quick installation.

### FEATURES

- **Battery included**
- **Advanced RH sensor technology**
- **No calibration required**
- **Excellent long term stability, response time and reset rate**
- **Battery powered sensors**
- **Mesh Network - easy to install and relocate sensors without additional wireless installation tools**
- **Sensor Data-Link LED confirms connection with Frontier 2.0 receivers**
- **Long battery life (approximately 3 years with one battery)**
- **Low battery LED plus remote low battery alarm notification**
- **Reliable Spread Spectrum technology**



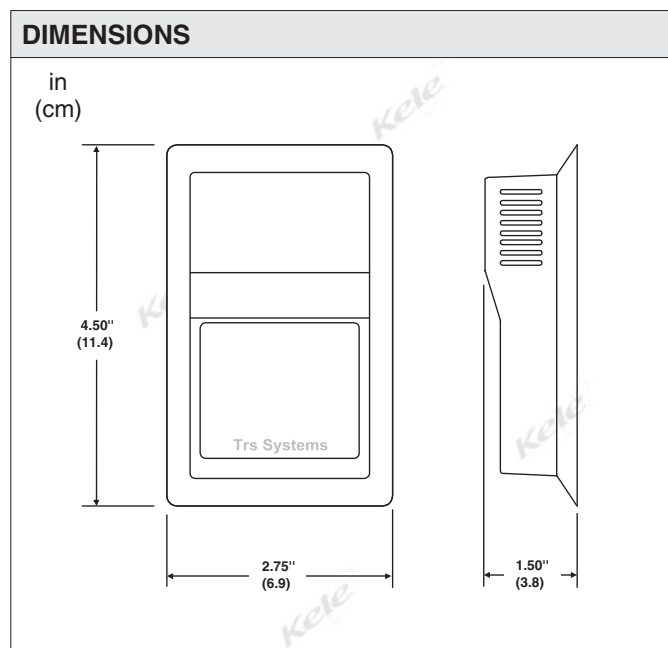
WH2630  
(Battery Included)



13

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SPECIFICATIONS	
<b>Battery</b>	Lithium 3.0V 1400 mAh (Duracell DL123A)
<b>Frequency</b>	923.58 MHz
<b>Accuracy</b>	
<b>WH2630A</b>	Humidity $\pm 3\%$ RH (10 to 90% RH)
<b>WH2630B</b>	Temperature $\pm 1^\circ\text{F}$ , Humidity $\pm 3\%$ RH (10 to 90% RH)
<b>Humidity Range</b>	0 to 100% RH
<b>Temperature Range</b>	32° to 104°F (0° to 40°C)
<b>Transmission Power Range</b>	11 dBm
<b>Indoor 200 to 500 ft</b>	1 mile (line-of-sight)
<b>Operating Temperature</b>	32° to 104°F (0° to 40°C)
<b>Operating Humidity</b>	0 to 100% RH (non-condensing)
<b>Dimensions</b>	4.50"H x 2.75"W x 1.50"D (11.4 x 6.9 x 3.8 cm)
<b>Weight</b>	0.2 lb (0.09 kg)
<b>Approvals</b>	FCC certified
<b>Warranty</b>	1 year





### INSTALLATION

**CAUTION:**

Sensors, repeaters and receivers should NOT be installed in the following areas:

- Inside metal enclosure or panel
  - Inside or immediately next to elevator shaft or elevator banks
  - In front of or immediately next to large trees or a large body of water
- Transmission distance and performance will be drastically reduced.

**CAUTION:**

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

Wireless wall 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.

To select the proper sensor location, first install and power the receiver. Observing polarity, insert the battery into the sensor to activate it. The mesh networked Frontier 2.0 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 to indicate the data transmission has been received successfully. The Data-Link LED will continue to blink once for every data transmission. The data transmission rate is programmed into the sensor (normally 1 minute intervals). To manually initiate a data transmission press the push button switch located by the negative terminal of the battery.

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.

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

Do not mount the sensors on an outside wall, on a wall containing water pipes or near air ducts. Avoid locations that are exposed to discharge air from registers or radiation from lights, appliances, or the sun.

Attach the wall sensor to the sub base by tightening the two locking screws at the bottom of the sub base. This information will be needed later to set up the receiver.

**NOTE: The locking screw must be installed for a secure installation. The screws are turned counter-clockwise to secure the cover.**

The sensor has a Low Battery LED that will start to blink continuously when the battery voltage is low. A low battery signal is also sent to the receiver for remote indication that the battery should be replaced. If the battery is not replaced in approximately 2 months the battery voltage will become so low that the Low Battery and Data-Link LEDs will not blink. Replace the battery and the Data-Link LED will start blinking while the sensor is re-establishing communications with the receiver.

### ORDERING INFORMATION

MODEL	DESCRIPTION
WH2630A	Wireless wall humidity (3%) sensor
WH2630B	Wireless wall humidity (3%) and temperature sensor