



## Wireless 433MHz Temperature and Humidity Sensor

Designed for use in international locations, RLE's Wi-THS-433 is a version of our wireless temperature and humidity sensor that communicates via a 433MHz frequency. The Wi-THS-433 features a battery-operated digital temperature and humidity sensor with a microprocessor-controlled 433 MHz, FCC-certified radio transmitter.

The Wi-THS-433 provides many advantages over traditional hard-wired temperature sensors. One main benefit is installation cost. No longer are electricians and conduit necessary to have an accurate temperature monitoring system. Adding new sensors or relocating current ones are tasks made simple using RLE's wireless gateway (Wi-MGR-INT), which contains an auto-discover mechanism that detects modifications to the system.

The Wi-THS-433 has an onboard time-of-day clock that allows it to spend most of the time in a low power, "sleep" state. The onboard microprocessor requires power only at predetermined time intervals (set at the factory). The temperature and humidity readings the Wi-THS-433 provides are wirelessly transmitted to RLE's Wi-MGR-INT wireless gateway. This architecture allows the Wi-THS-433 sensor to consume minimal power, resulting in a battery life of up to four years.

### Features

- Wireless with compact ABS enclosure
- Digital temperature and humidity measurement
- Transmission range of up to 100 feet (30.5m)
- 3.6V lithium AA battery life up to four years
- Moisture resistant coating
- Internal loop antenna
- CE Marked
- Complies with part 15 of the FCC Rules

### Benefits

- Easy installation and simple to relocate
- Accurate, efficient data
- Reliable communication
- Cost effective wireless temperature sensor
- Durable for moist environments
- Compact design
- FCC Certified Transmitter

# Monitoring & Notification

# Wi-THS-433 Specifications

<b>Power</b>	3.6V Battery Lithium AA; included
<b>Battery Life</b> Lithium AA Battery	Up to 4 years with 10-17 second random transmission interval
<b>Shelf Life (Battery Installed)</b> Lithium AA Battery	10 years in quiescent mode
<b>Transmission</b> Interval Frequency Range	10-17 seconds (random) 433 MHz Up to 100 ft. (30.5m)
<b>Accuracy</b>	+/- 1.0 degree F +/- .5 degree C +/- 3% humidity
<b>Operating Temperature</b>	-40°F to 185°F (-40°C to 85°C)
<b>Storage Temperature</b>	-40°F to 185°F (-40°C to 85°C)
<b>Dimensions</b> Enclosure	2.5" W X 2.0" H X 1.0" D (63.5mm W x 50.8mm H x 25.4mm D)
<b>Weight</b>	1 oz. (28.35g)
<b>Mounting</b>	Wall mount or free-standing (for ease of relocation)
<b>Certification</b>	CE; FCC Part 15, Class B; FCC ID: M5ZP6EZ10

