

 **Falcon****Wireless  
Temperature Sensor**

**T**he Falcon Wi-TS is a battery-operated digital temperature sensor with a microprocessor-controlled 418 MHz, FCC-certified radio transmitter. The Wi-TS provides many advantages over traditional hard-wired systems. 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 (FDS-Wi), which contains an auto-discover mechanism that detects modifications to the system.

The Wi-TS 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 Wi-TS provides a temperature output signal from an internal thermistor, and the information is wirelessly transmitted to a point managing receiver, RLE's FDS-Wi wireless gateway. This architecture allows the Wi-TS sensor to consume minimal power, resulting in a battery life of up to four years.

### Features

- Wireless with compact ABS enclosure
- Digital temperature measurement (+/- 1.0 degree F)
- 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
- Complies with part 15 of the FCC Rules

### Benefits

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

# Monitoring & Notification

## Wi-TS 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) 418 MHz Up to 100 ft. (30.5m)
<b>Accuracy</b>	+/- 1.0 degree F +/- .5 degree C
<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>	FCC Part 15, Class B; FCC ID: M5ZP6EZI0



Although the information contained in this document is believed to be accurate and correct, RLE Technologies assumes no responsibility, and disclaims all liability, for any damages resulting from the use of this information or any error or omission in this document. RLE Technologies does not warrant, guarantee, or make any representations as to the performance, fitness for use, safety, or reliability of any existing or future wiring, equipment, additions or modifications to equipment, or any other component of the original or modified system. Specifications are subject to change without notice. 120030 Rev 2.0 (8/2010) ©2010 RLE Technologies



104 Racquette Drive  
Fort Collins, CO 80524  
970.484.6510  
www.rletech.com