



Temperature Sensor

The Wireless Temperature Sensor measures the ambient thermal conditions of your environment. These sensors accurately monitor temperature changes in your physical location. Settings including notifications, alerts, reports, and maps are customizable in the sensor portal.

Operating Temperature Range (-40°F to +185°F)





IIS-Temp-W

I.I.S. sensors are enclosed in reliable, weatherproof NEMA-rated enclosures. Our NEMA-rated enclosures are constructed for both indoor or outdoor use and protect the sensor circuitry against the ingress of solid foreign objects like dust as well as the damaging effects of water (rain, sleet, snow, splashing water, and hose-directed water).

- Safe from falling dirt
- Protects against wind-blown dust
- Protects against rain, sleet, snow, splashing water, and hose-directed water
- Increased level of corrosion resistance
- Will remain undamaged by ice formation on the enclosure



Supply voltage	2.0–3.8 VDC (3.0–3.8 VDC using power supply) *	
Current consumption	0.2 μ A (sleep mode), 0.7 μ A (RTC sleep), 570 μ A (MCU idle), 2.5 mA (MCU active), 5.5 mA (radio RX mode), 22.6 mA (radio TX mode)	
Operating temperature range (board circuitry and battery)	-40°C to +85°C (-40°F to +185°F)	
Included battery	Max temperature range	-40° to +85°C (-40° to +185°F)
	Capacity	1500 mAh
Optional solar feature	Solar panel	5VDC/30mA (53mm x 30mm)
	Charging temperature range	0° to 45°C (32° to 113°F)
	Max temperature range	-20° to 60°C (-4° to 140°F)
	Included rechargeable battery	600 mAh/>2000 charge cycles (80% of initial capacity)
	Solar efficiency	Optimized for high and low-light operation **
	Charging efficiency	40% ***
	Luminous sustainability	Minimum of 250 LUX ***
External Probe and Lead Operating Range	-40°C to +125°C (-40°F to +257°F) (Limited to main-unit circuitry, -40°C to +85°C)	
Accuracy @ 25°C	+/- 1% (1° C or 1.8° F)	
User-calibrated accuracy	+/- 0.25° C (\pm 0.45° F)	
Time constant @ 25°C	30 sec	
Datalogging	Datalogs 2000 to 4000 readings if gateway connection is lost (non-volatile flash, persists through the power cycle): - 10-minute heartbeats = ~ 22 days - 2-hour heartbeats = ~ 266 days	
Wireless range	1,200+ ft non-line-of-sight	
Security	Encrypt-RF® (256-bit key exchange and AES-128 CTR)	
Weight	4.7 ounces	
Enclosure rating	NEMA 1, 2, 4, 4x, 12 and 13 rated, sealed and weather proof	
UL rating	UL Listed to UL508-4x specifications (File E194432)	
Certifications	  900 MHz product; FCC ID: ZTL-G2SC1 and IC: 9794A-G2SC1. 868 and 433 MHz product tested and found to comply with: EN 300 220-2 V3.1.1 (2017-02), EN 300 220-2 V3.1.1 (2017-02) and EN 60950	

*Hardware cannot withstand negative voltage. Please take care when connecting a power device.

** Light present 25% of day yields 125% of operating power to support 10-minute heartbeats.

*** Solar feature's energy harvesting circuitry works indoors with low light.

**** The Temperature sensor is not meant for wet, damp, high humidity environments.