

# COMPACT WIRELESS TEMPERATURE SENSOR



**ORDER CODE:** TP-101-TH  
**PRODUCT CATEGORY:** SENSORS

## Adaptable Temperature Sensing, Unmatched Flexibility.

### PRODUCT OVERVIEW

#### General Description

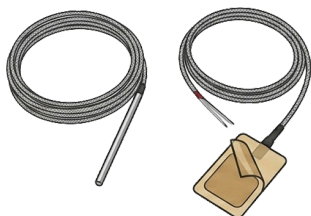
The TP-101-TH is a versatile wireless sensor designed to accommodate a wide range of demanding temperature monitoring applications. Featuring a detachable connector, it allows users to attach their preferred off-the-shelf temperature probes, making it highly adaptable to specific operational needs. In addition to robust temperature tracking, the TP-101-TH also measures relative humidity, vibration, and ambient light, providing comprehensive environmental oversight. This edge data is transmitted in real-time via Bluetooth® 5 for seamless, instant integration into E4A's modern IoT monitoring platform, allowing operators to easily track asset health.

Compact yet rugged, this multi-sensor is powered by a standard CR2450 coin cell battery, combining low-power efficiency with long-lasting performance.



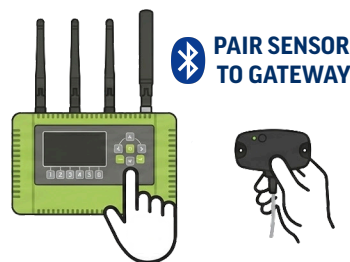
### QUICK START: DEPLOY, CONNECT, MONITOR

#### 1 SELECT RTD



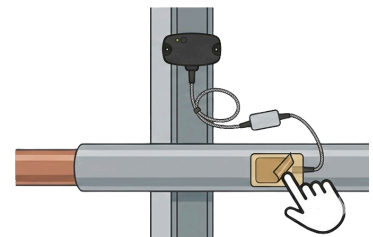
Select your preferred off-the-shelf temperature probe for use with the TP-101-TH detachable connector.

#### 2 PAIR SENSOR



Pair your sensor with a gateway that is within range for reliable data collection.

#### 3 DEPLOY



Mount the sensor on the target asset and instantly view the data in E4A's cloud platform!

# TECHNICAL SPECIFICATIONS

## Power Supply

Main Power	Internal Battery
	CR2450 coin cell
Nominal Voltage	3VDC
Typical Capacity	600mAh
Current Consumption	24µA (avg.)

## Operating Specifications

Operating Temperature	-20°C to +60°C
Storage Temperature	-20°C to +70°C (with battery) -20°C to +70°C (without battery)
Permissible Humidity	20-85% (operating and storage)
Ingress Protection Rating	IP30
Pollution Degree	2
Altitude	2000m

## Measurement Characteristics

Accelerometer	6-axis, ±16g FSR
Light Exposure	0 to 100% relative light Up to 220 lux
Temperature	-40°C to +120°C ±0.5°C accuracy (15°C to 40°C)
Humidity	0 to 100% relative humidity ±3.5 accuracy

## Physical Characteristics

Housing Material	Flame Retardant Polycarbonate/ABS
Physical Dimensions	Height: 15mm / 0.6inch Width: 75mm / 2.9inch Depth: 50mm / 1.9inch
Weight	60g
Mounting	Screw mount Magnetic mount Double sided adhesive

## Communications

Wireless Module	2.4GHz Bluetooth® 5 transceiver
Communication Range	125m line of sight
Reporting Interval	User programmable in 30s increments

## Security

Encryption	AES 128-bit crypto accelerator ECC and RSA public key accelerator (PKA) SHA2 accelerator (full suite to SHA-512) True Random Number Generator (TRNG)
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## User Interface

Pushbuttons	1 pushbutton (device reset and device pairing)
Status LED	2 status LED's (red, green)



## PRODUCT CERTIFICATIONS

<b>FCC ID</b>	2AXVKWTP02
<b>Industry Canada</b>	26661-WTP02
<b>Safety Standards</b>	UL 61010-1 3rd Edition: 2023 CSA C22.2 No. 61010-1-12 UPD 1: July 2015, UPD 2: April 2016; UPD 3: June 2023; and AMD 1:2018

SCAN HERE!



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