

MULTI-CHANNEL TEMPERATURE SENSOR



ORDER CODE: TP-400R8
PRODUCT CATEGORY: SENSORS

Multi-Channel Temperature Intelligence. Powering Smarter Decisions.

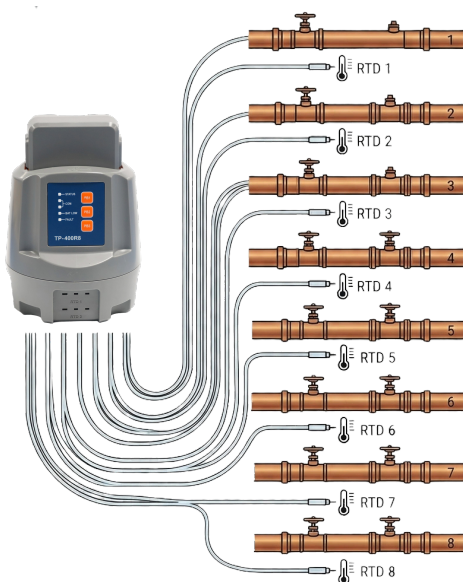
PRODUCT OVERVIEW

General Description

E4A's TP-400R8 Multi-Channel Wireless Temperature Sensor is a high-performance, battery-powered device designed to monitor up to 8 temperature points simultaneously. This multi-channel capability enables precise, condition-based insights across multiple assets, reducing the need for multiple individual sensors. Powered by either the BP-100 non-rechargeable or BP-100R rechargeable battery pack, the TP-400R8 offers extended operation time and easy battery swaps without disrupting performance. Its robust design and reliable Bluetooth® 5 connectivity make it an ideal solution for continuous, real-time monitoring in demanding industrial environments.



INTELLIGENT DASHBOARDS



View Your
Temperature Readings
from Anywhere!



TECHNICAL SPECIFICATIONS

Power Supply

Main Power	3VDC, BP-100 (non-rechargeable) 3.6VDC, BP-100R (rechargeable)
Battery Capacity	6000mAh (non-rechargeable) 6800mAh (rechargeable)
Input Voltage Range	1.8VDC to 5.0VDC
Current Consumption	22uA (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
Protection Class	3
Altitude	2000m

Measurement Characteristics

Temperature Probes	PT-100 probe (auto-detected) PT-1000 probe (auto-detected)
Measurement Range	-50°C to +260°C
Accuracy	±0.4°C Full range, factory calibrated
RTD Probe Interface	3 wire, ANSI male blade 7.9mm pitch

Physical Characteristics

Housing Material	Flame Retardant Polycarbonate/ABS
Physical Dimensions	Height: 110mm / 4.3inch (without battery) Height: 147.5mm / 5.8inch (with battery) Width (diameter): 100mm / 3.9inch
Weight	320g (without battery) 525g (with battery)
Mounting	1/4-28 UNF thread mount 13.5mm deep bolt hole

Communications

Wireless Module	2.4GHz Bluetooth® 5 transceiver
Communication Range	200m 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	3 pushbuttons (pairing, trigger data report, enable/disable serial terminal interface)
Status LED	5 status LED's (red, green, amber)



PRODUCT CERTIFICATIONS

FCC ID	2AXVKTP400
Industry Canada	26661-TP400
Safety Standards	CSA C22.2 No. 61010-1:12; UPD 1:2015; UPD 2:2016; UPD: 3:2023; UPD 4:2024; A1:2018 CSA C22.2 No. 61010-2-030:18 UL 61010-1: Ed.3, 2012 (R2024) UL 61010-2-030: Ed.2, 2018 (R2023)

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CONTACT US

Headquarters

250 Herzberg Road
Kanata, Ontario, Canada K2K 2A1

Lab Testing Facility

1292 Rosedale Road North
Smiths Falls, Ontario, Canada K7A 4S6

Phone: +1 (613) 595-0303

E-mail: sales@electronics4all.ca

Website: www.electronics4all.ca

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