



ELA BLUE T/RHT Temperature Monitoring Sensor

The **ELA BLUE T/RHT Temperature Monitoring Sensor** is a long-range temperature and humidity monitoring wireless sensor. It is used to measure temperature and humidity in areas where dust-tight, water-proof, or wireless long-range solutions are required. The sensor collects the data and sends it to a tracking device via Bluetooth.

Applications

- Cargo conditions monitoring
- Temperature and humidity monitoring

Key Features

- Water-proof
- Dust-tight
- High lifetime

Compatibility

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Detailed specifications

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Environmental specifications

Operating temperature	-40 °C to +85 °C	
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Measurement ratings

Temperature detection range	-40 °C to +85 °C	
Temperature detection accuracy	±0.5 °C @ -40°C to 0 °C ±0.25 °C @ 0°C to 65 °C ±0.5 °C @ 65°C to 85 °C	±0.3°C @ -40 °C to 85°C
Humidity detection range	—	0 to 100%
Resolution	Temperature: 0.0625 °C	Temperature: 0.015 °C Humidity: 0.01%

Bluetooth specifications

Signal transmission frequency	2.4 GHz
Protocol standard	Bluetooth Low Energy 4.0/4.2
Operating mode	Advertising beacon mode: periodic data transmission
Output power	+4 dBm (adjustable)
Transmission distance	500 m (open field only, depends on output power)
Transmission period	0.1 to 10s (adjustable)

Certifications

Europe	CE: EN 300 328, EN 301 489 & EN 55032, EN 62368-1
USA	FCC: FCC PART 15
Canada	ISED: RSS-247, ICES-003
RoHS	Yes

Physical properties

Sensor dimensions	ø 57mm base, 20mm housing thickness	
Net weight	41 g	
Housing	IP68 Waterproof	IP65 Waterproof

Battery specifications

Battery power supply	Lithium internal battery, 3 V DC (not replaceable)
Battery life	Estimated 4 years with recommended configuration

Ordering information

X00974 + X00976	Bluetooth sensor for cargo temperature monitoring with holder sticker
X00975 + X00976	Bluetooth sensor for cargo temperature and humidity monitoring with holder sticker

Contact information:

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