

ERS Temp w-MBus

Wireless Sensor

Description

The ERS Temp W-MBus is a Wireless M-Bus indoor temperature sensor designed for precise and reliable indoor climate monitoring. It features high measurement accuracy, a 10+ year battery life, and fixed factory settings for simple, maintenance-free operation. The compact, minimalistic design ensures discreet installation in any environment.

Applications

- Indoor environment measuring
- Smart buildings

Product features

- Wireless M-Bus radio
- Temperature sensor
- Replaceable lithium battery (AA, ER14505)





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Device Specifications

Mechanical specifications

Weight	52g excluding battery 69g including battery
Dimensions	76.2 x 76.2 x 22.5 mm
Enclosure	PC + ABS
Protection class	IP20

Operating conditions

Temperature	0 to 50 °C
Humidity	0 to 85 % RH (non-condensing)
Operating Altitude	0 – 2000 m
Pollution Degree	Degree 2
Usage Enviroment	Indoor
Storage Temperature	-40 – 85 °C

Device Power Supply

Battery Type	1 x 3.6V AA Lithium Battery
Expected Battery Life	<u>Up to</u> 10 years (Depending on environment)

Radio / Wireless

Wireless Technology	Wireless M-Bus (EN13757:2018)
Wireless M-Bus Modes	C1a
Transmission Frequency	868.95 MHz
RF Transmit Power	Max 14 dBm EIRP

Device Logging Function

Sampling Interval	Fixed, 3 minutes
Data Upload Interval	Fixed, 3 minutes

Sensor Characteristics

Temperature Range	0 to 50 °C
Temperature Resolution	0.1 °C
Temperature Accuracy	Accuracy: ± 0.2 °C



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User Interface

LED	Indication of sensor start-up.
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Conformity

EMC	2014/30/EU
RED	2014/53/EU
LVD	2014/35/EU
RoHS	2011/65/EU + 2015/863

Country of origin

Product Development	Sweden
Plastic casing	Sweden
Production	Sweden, Latvia, Lithuania

Ordering Information

Art. No.	Description
ERSTEMP-W	ERS Temp w-WBus
ER14505	AA 3.6V Lithium Battery ER14505

Document Revision History

Version	Description	Date
1.0	First version	2024-09-06
2.0	Product Name update	2025-03-14
2.1	Changed picture	2025-09-01