

ELT wM-Bus Series

wM-Bus Wireless Sensor

The **ELT wM-Bus Series** is a Wireless M-Bus sensor designed for both indoor and outdoor use. The sensor supports a wide range of external modules, enabling flexible measurement capabilities and easy adaptation to specific application needs. It features high measurement accuracy, a 10+ year battery life for a simple, maintenance-free operation.

ELT wM-Bus Series is a battery-powered device and is designed to be wall mounted. The sensor is equipped with NFC (Near Field Communication) for easy configuration with an NFC-enabled smartphone.

Product features

- Wireless M-Bus radio
- Temperature sensor
- Humidity sensor
- Accelerometer sensor
- Atmospheric pressure sensor
- External temperature sensor
- External humidity sensor
- External pulse
- External analog input
- External water leak
- NFC for configuration

Device specifications

Mechanical specifications

Weight	65 g excluding batteries
	102 g including batteries
Dimensions	94 x 59 x 25 mm
Enclosure	Polycarbonate
Protection class (ELT-W)	IP67
Protection class (ELT-ETH-W)	IP54

Operating conditions

Temperature	-40 to 60 °C
Humidity	0 to 100%
Operating Altitude	0 - 2000 m
Pollution Degree	Degree 2
Usage Environment	Indoor, outdoor
Storage Temperature	-40 to 85 °C



ELT-W



ELT-ETH-W

Applications

- Outdoor environment measuring
- Smart buildings

Device Power Supply

Battery Type	1 x 3.6V AA Lithium Battery
Expected Battery Life	Up to 10 years (Depending on configuration and environment)

Radio / Wireless

Wireless Technology	Wireless M-Bus (EN13757:2018)
Wireless Security	wM-Bus End-to-End encryption (AES-CBC)
Wireless M-Bus modes	T1, C1a, C1b
Transmission Frequency	868.95 MHz
RF Transmit Power	Max 14 dBm EIRP

Device Logging Function

Sampling Interval	Configurable via NFC
Data Upload Interval	Configurable via NFC

User Interface

LED	Indication of sensor start-up and telegram transmission.
App Support	Sensor Settings (Using NFC)

Conformity

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

Country of origin

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

Ordering Information

Art. No.	Description
ELT-W	ELT wM-Bus
ELT-ETH-W	ELT wM-Bus with ext. SHT4x and filter cup pre-assembled

Document Revision History

Version	Description	Date
1.0	First version	2025-12-11
1.1	Add ELT-ETH-W	2026-03-13

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