Datasheet
Publish Date: 2025-12-11

ERS M-Bus

M-Bus Sensor

The ERS Display Series M-Bus sensor are indoor climate sensors that communicate using M-Bus. The sensor measures, depending on model, temperature, humidity, light intensity, CO2-level, sound-level, and detects motion. The sensors are equipped with NFC (Near Field Communication) for easy configuration with an NFC-enabled smartphone.

Applications

- Indoor environment measuring
- Smart buildings

Product features

- M-Bus communication
- Temperature sensor
- Humidity sensor
- CO2 sensor
- Motion detection
- Sound sensor
- Light sensor
- NFC for configuration

ElektronikSystem i Umeå AB Tvistevägen 48C, 907 36 Umeå, Sweden
E-mail: support@elsys.se | **Web:** www.elsys.se

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M-Bus Sensor

Device Specifications

Mechanical specifications	
Weight	53 – 60 g depending on model
Dimensions	76,4 x 76,4 x 22.5 mm
Enclosure	Polycarbonate
Protection class	IP30
Mounting	Wall-mount

Operating conditions	
Temperature	-40 to 60 °C
Humidity	0 to 95 % (non-condensing)
Operating Altitude	0 – 2000 m
Pollution Degree	Degree 2
Usage Environment	Indoor
Storage Temperature	-40 to 85 °C

Electrical Characteristics	
Nominal voltage	21-42 VDC
M-Bus Unit Load	1

M-Bus	
Interfaces	M-Bus Slave
M-Bus standard	EN13757

M-Bus Slave Interface	
M-Bus Baud rate	300, 600, 1200, 2400, 4800, 9600
Addressing modes	Primary, Secondary
Default primary address	0
Default secondary address	Last four digits of serial number

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

Conformity	
EU directives compliance	RoHS 2011/65/EU, WEEE 2012/19/EU
EMC	EN 61000-6-2, EN 61000-6-3
LVD	2014/35/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**
ERSLITE-M	ERS Lite M-Bus
ERSCO2LITE-M	ERS CO2 Lite M-Bus
ERS-M	ERS M-Bus
ERSCO2-M	ERS CO2 M-Bus
ERSSOUND-M	ERS Sound M-Bus

Document Revision History

Version	**Description**	**Date**
1.0	First version	2026-10-16

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