



## TROUBLESHOOTING

### The master does not receive any telegram from the sensor

Please verify that:

- The product has been activated.
- The master is connected to a power source and is correctly configured.
- The master is within range of the radio signal.
- The master antenna is properly mounted for ideal performance.
- The master and the sensor use the same wireless M-Bus mode (C1).
- The sensor is not mounted inside a metallic cabinet.
- The sensor is not disturbed by other radio equipment.

### Temperature value is inaccurate

Although the temperature sensor is normally very accurate, an incorrect positioning of the product can sometimes result in unintended temperature variations. When mounting the sensor, please verify that:

- The product is not mounted near any heat or cold sources.
- The product is not mounted in direct sunlight
- The product is not mounted in a spotlight beam.

## TECHNICAL SPECIFICATIONS

### Mechanics

Protection class	IP30
Dimensions (w x h x d)	80 x 80 x 25 mm
Weight	75 g
Mounting	Wall-mount
Antenna	Internal

### Electrical connections

Supply voltage	Battery, life span 15 years at 15 °C to 25 °C
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### User interface

Push button SW1	Product activation
LED light	Activation
Momentary values	Temperature, status
Historic values	Average values over the last hour/day

### M-Bus slave interface

Frequency	868.95 MHz
Transmit power	10 mW
Transmit interval	180 seconds
Encryption	Yes
Wireless M-Bus modes	C1

### Approvals

EMC	EN 61000-6-2, EN 61000-6-3
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## SAFETY

The warranty does not cover damage to the product caused by usage in any other way than described in this manual. Elvaco AB can not be liable for personal injury or property damage caused by usage in any other way than described in this manual.

## ORDERING INFORMATION

Item number	Description
1050135	CMa12w Indoor temperature sensor, Wireless M-Bus

## CONTACT INFORMATION

### Elvaco AB Technical support:

Phone: +46 300 434300

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### EU DECLARATION OF CONFORMITY

This declaration of conformity is issued under the sole responsibility of the manufacturer:

Elvaco AB, Teknikgatan 18, S-434 37 Kungälv, Sweden.

Product Year of CE-marking  
CMa10w 2016  
CMa11w 2016  
CMa12w 2016  
CMa20w 2016

The object(s) of the declaration listed above is in conformity with the relevant Community harmonization legislation:  
EMC Directive 2014/53/EU  
Radio Equipment Directive 2014/53/EU  
RoHS 2011/65/EU

And are in conformity with the following harmonization standards or other normative documents:  
EN55022 (Radiated emission)  
EN 61000-4-6 (immunity to RF-injection)  
EN 61000-4-3 (immunity to RF-field)  
EN 61000-4-11 (immunity to voltage variation)  
EN 61000-4-4 (immunity to bursts)  
EN 61000-4-5 (immunity to surge)  
EN 61000-4-2 (immunity to ESD)  
EN 300 220-1 (SRD Low power radio equipment)

Kungälv, Sweden, 2016-04-16

David Vonasek, CEO