

# CMa12w

## Indoor temperature sensor, wireless M-Bus

CMa11w is a 1-way wireless M-Bus temperature and humidity sensor for indoor use. The sensor offers high accuracy, user-friendliness and a long battery-life, up to 12 years. Readouts and configuration are easily performed via wireless M-Bus or by using a mobile phone (via NFC).



## Technical specification

### Mechanics

|                        |                 |
|------------------------|-----------------|
| Protection class       | IP30            |
| Dimensions (w x h x d) | 80 x 80 x 25 mm |
| Mounting               | Wallmount       |
| Weight                 | 75 g            |

### Electrical connections

|                |                                                |
|----------------|------------------------------------------------|
| Supply voltage | Battery, lifespan 15 years (at 15 °C to 25 °C) |
|----------------|------------------------------------------------|

### Environmental characteristics

|                       |                            |
|-----------------------|----------------------------|
| Operating temperature | -10 °C to +25 °C           |
| Operating humidity    | 0 to 95 %, no condensation |
| Operating altitude    | 0-2000 m                   |
| Pollution degree      | Degree 2                   |
| Usage environment     | Indoors                    |
| Storage temperature   | -40 °C to +85 °C           |

### User interface

|                  |                                               |
|------------------|-----------------------------------------------|
| LCD-display      | No                                            |
| Momentary values | Temperature, status                           |
| Historic values  | Average value over the last hour and last day |

### Approvals

|     |                            |
|-----|----------------------------|
| EMC | EN 61000-6-2, EN 61000-6-3 |
|-----|----------------------------|

### Sensor characteristics

|                                       |                                    |
|---------------------------------------|------------------------------------|
| Measurement range, temperature sensor | -20 °C to +55 °C                   |
| Temperature sensor, margin of error   | Temperature: 5 °C to 55 °C: ±0.2°C |

### M-Bus

|                |             |
|----------------|-------------|
| Interfaces     | M-Bus slave |
| M-Bus standard | EN13757-4   |

### M-Bus slave interface

|                           |                     |
|---------------------------|---------------------|
| Frequency, Wireless M-Bus | 868,95 MHz          |
| Transmit power            | 10 mW               |
| Transmit interval         | 3 minutes           |
| Encryption                | Yes                 |
| Wireless M-Bus modes      | C1 (default) and T1 |