

# CMa20w

*Wireless outdoor M-Bus temperature and humidity sensor*



CMa20w is an M-Bus communicating temperature and humidity sensor for outdoor use that communicates via wireless M-Bus. The high accuracy sensor and user friendly handling makes the CMa20w the perfect choice for outdoor climate logging when wiring is not an option.

## TEMPERATURE AND HUMIDITY

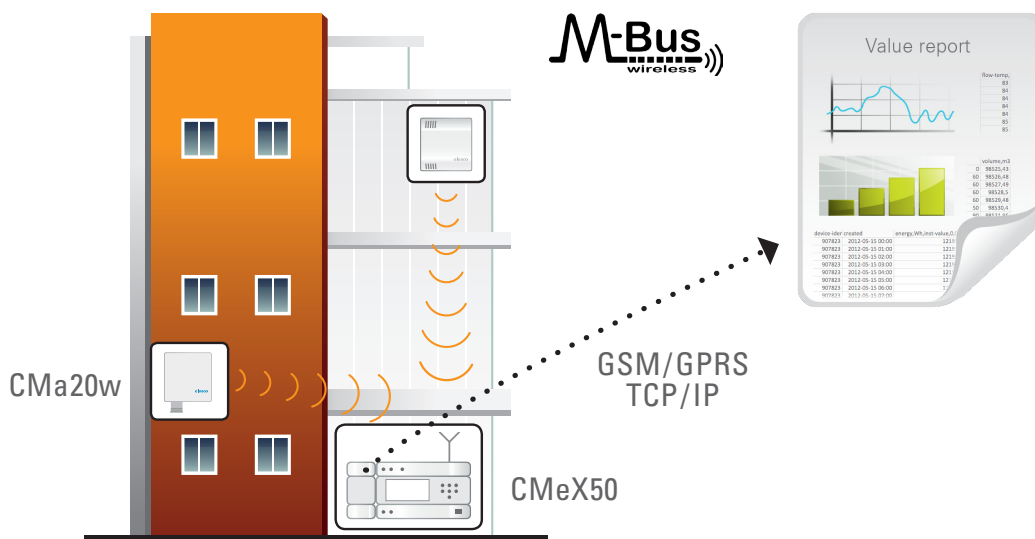
The CMa20w has a high accuracy temperature and humidity sensor, which will provide precise and fast readings. The precision meets the standards for measuring outdoor climate.

## WIRELESS M-BUS

Use the CMa20w together with a wireless M-Bus master for measuring of outdoor climate when wiring is not an option. CMa20w operates in wireless M-Bus mode C1b to optimize performance and battery life. The CMa20w is easy to install and is equipped with a long-life battery, which will keep it running for up to 12 years. The M-Bus readout consists of momentary values, min/max values and the average values for the last hour and day.

## FLEXIBLE

CMa20w can be used in various situations. It can for example be used in building automation for controlling of the building's heating based on outdoor temperature or as a reference sensor for controlling based on indoor temperature. It can also be used in refrigerated cabinets or harsh environments with dust and high humidity thanks to its robust and condensation-resistant design.



### Mechanics

Protection class	IP65
Dimensions	110 x 100 x 52 mm
Weight	140 g
Antenna Wireless M-Bus	Internal
Mounting	Wall mounted

### Electrical

Power supply	Battery, 12 years
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### Environmental

Operating temperature range	-20 to +45 °C
Storage temperature range	-40 to +30 °C
Operating humidity	0 to 95 %RH no condensation

### Sensor accuracy

Temperature 10 to 30 °C	+/- 0.2 °C
Humidity 10 to 90 % RH	+/- 2 % RH

### Wireless M-Bus

M-Bus standard	EN 13757-4:2013, mode C1b
M-Bus commands	SND_NR
Values	Temperature, humidity, min/max/ average, momentary
RF power	25 mW
Frequency	868.95 MHz

### Approvals

EMC	EN 61000-6-2, EN 61000-6-3
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### Factory defaults

Transmit interval	3 minutes
Encryption mode	Optional unencrypted/encrypted (128 bit AES)
Delivery mode	Inactive (not transmitting)