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.
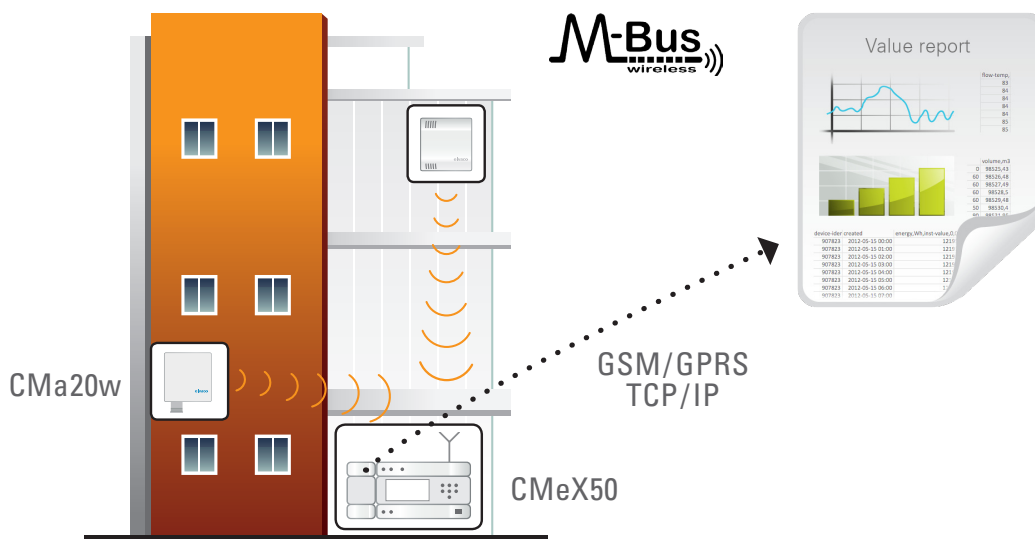
TEMPERATURE AND HUMIDITY

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.

CMa20w

GSM/GPRS
TCP/IP

CMeX50

Value report

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

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

Factory defaults

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

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