CM*a*10w

Wireless M-Bus temperature and humidity sensor

The CMa10w is a wireless M-Bus communicating temperature and humidity sensor for indoor use. CMa10w complies with the OMS standard and operates in wireless M-Bus mode T1. CMa10w is easy to install, has a high accuracy and long life time, which make it the perfect choice for tenant owners when wiring is not an option.

TEMPERATURE AND HUMIDITY

The CMa10w has a high accuracy temperature and humidity sensor, which will provide precise and fast readings. The precision meets the standards for measuring indoor climate.
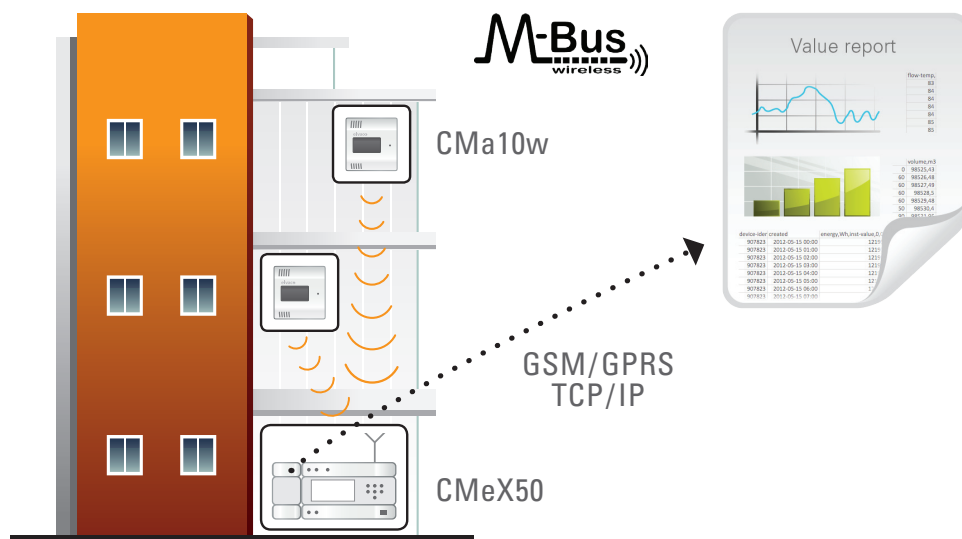
COMFORT LEVEL BILLING

There are many ways of billing residents for the energy used to heat the apartment/building. With the CMa10w, it is possible to apply comfort level billing, which means that the resident pays for a certain indoor temperature. The buildings total energy cost for heating can easily be divided in parts (sq m). The main goal is to give the residents a fair energy cost.

THE DISPLAY

The display and the user-friendly menu system allow the user to effortlessly switch between different measurements, such as current temperature and humidity, min/max values and average values.

WIRELESS M-BUS

Use the CMa10w together with a wireless M-Bus master when wiring is not an option. The CMa10w complies with the OMS standard and operates in wireless M-Bus mode T1. The CMa10w is easy to install and is equipped with a long-life battery, which will keep it running for up to 12 years.

M-Bus wireless

CMa10w

Value report

GSM/GPRS
TCP/IP

CMeX50

Mechanics

Casing material	ABS UL94-V0, white
Protection class	IP20
Dimensions	80 x 80 x 28 mm
Weight	75 g
Antenna Wireless M-Bus	Internal
Mounting	Wall mounted

Electrical

Power supply	Battery, 12 years

Environmental

Operating temperature range	0 °C to +50 °C
Storage temperature range	-40 °C to +85 °C
Operating humidity max	0 to 95 % RH no condensation

Temperature sensor

Temperature range	0 °C to +50 °C
Temperature 10 to 30 °C	+/- 0.2 °C
Temperature 0 to 10 °C	+/- 0.4 °C
Temperature -10 to 0 °C	+/- 0.5 °C
Temperature -20 to +55 °C	+/- 1.5 °C

Humidity sensor

Humidity range	0-100 % RH
Repeatability RH	+/- 0.1 % RH
Humidity 10 to 90 % RH	+/- 2 % RH
Humidity 0 to 100 % RH	+/- 4 % RH

User interface

LCD display	Yes
Button with LED	Yes. Configuration and confirmation

Wireless M-Bus

M-Bus standard	EN 13757-4, OMS compliant
Wireless M-Bus modes	T1
M-Bus commands	SND_NR
Values	Temperature, humidity, min/max/average
RF power	10 mW
Sensitivity	-104 dBm
Range	Up to 600 M
Frequency	868 MHz

Approvals

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