

CMa20

Outdoor M-Bus temperature and humidity sensor



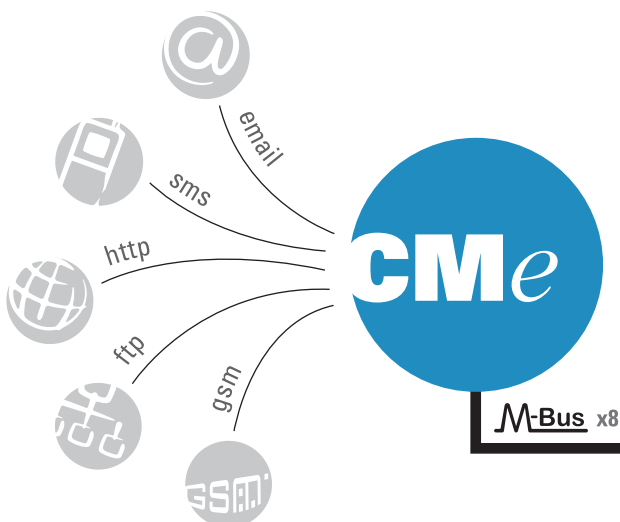
The CMa20 is an M-Bus communicating temperature and humidity sensor for outdoor use. CMa20 is the ideal product for temperature and humidity report of outdoor climate. The high accuracy sensor and user friendly handling makes the CMa20 the perfect choice for outdoor climate logging.

TEMPERATURE AND HUMIDITY

The CMa20 has a high accuracy temperature and humidity sensor, which will provide precise and fast readings. The precision meets the standards for measuring outdoor climate.

M-BUS READOUT

The M-Bus readout consists of momentary values and the average values for the last hour and day. The power used by CMa20 is only 1 T (1.5 mA) and both primary and secondary addressing mode can be used.



Mechanics

Casing material	Polystyrol
Protection class	IP65
Dimensions	110 x 100 x 52 mm
Weight	140 g
Connection M-Bus	Screw terminal <1.5 mm ²
Mounting	Wall mounted

Electrical

Power supply	21-42 VDC through M-Bus connection, independent of the wiring polarity
Power consumption	1.5 mA M-Bus 1T

Environmental

Operating temperature range	-40 °C to +55 °C
Storage temperature range	-40 °C to +85 °C
Operating humidity	0 to 100 % RH no condensation

Temperature sensor

Temperature range	-40 °C to +55 °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 -40 to +55 °C	+/- 1.5 °C

Humidity sensor

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

M-Bus

M-Bus standard	EN 13757
M-Bus baud rate	300, 2400 Bit/s
IR interface	No
M-Bus commands	SND_UD, SND_NKE, REQ_UD2
Addressing modes	Secondary, Primary
Momentary values	Temperature, humidity, status
Historic values	Average values for last hour and last day

Approvals

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