

CMa20

Outdoor temperature/humidity sensor

CMa20 is an outdoor temperature and humidity sensor which uses standard M-Bus communication. It has a high accuracy and provides information about momentaneous meter values as well as average meter values for the last day and hour .



Technical specification

Mechanics

Protection class	IP65
Dimensions (w x h x d)	110 x 100 x 52 mm
Mounting	Wall-mount
Weight	140 g

Electrical connections

Supply voltage	From M-Bus
M-Bus slave port	Screw terminal, Cable 0.25-1.5 mm ²

Electrical characteristics

Nominal voltage	21-42 VDC
-----------------	-----------

Environmental characteristics

Operating temperature	-40 °C to +55 °C
Operating humidity	0 to 100 %
Operating altitude	0-2000 m
Pollution degree	Degree 2
Usage environment	Outdoors
Storage temperature	-40 °C to +85 °C

Approvals

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

Sensor characteristics

Measurement range, temperature sensor	-40 °C to +55 °C
Measurement range, humidity sensor	0 % to 100 % RH
Temperature sensor, margin of error	Temperature: 10 °C to 30 °C: ±0.2°C Temperature: 0 °C to 10 °C: ±0.4°C Temperature -10 °C to 0 °C: ±0.5°C Temperature: below -10 °C or above 30 °C: ±1.5°C
Humidity sensor, margin of error	Humidity: 10 % RH to 90 % RH: ±2% RH Humidity: below 10 % RH or above 90 % RH: ±4% RH

User interface

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

M-Bus

Interfaces	M-Bus slave
M-Bus standard	EN 13757
M-Bus baud rate, slave port	300 and 2400 bit/s

Integration

Compatibility	Devices using the M-Bus protocol
---------------	----------------------------------