CMa20w

Outdoor temperature/humidity sensor

CMa20w is a Wireless M-Bus temperature and humidity sensor for outdoor use. It has a high accuracy and provides information about momentaneous meter values as well as average meter values for the last hour and day. The sensor is a perfect option for outdoor climate logging when wiring is not an option.

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	Battery, life span 12 years

Environmental characteristics

Operating temperature	-20 °C to +45 °C
Operating humidity	0 to 95 %, no condensation
Operating altitude	0-2000 m
Pollution degree	Degree 2
Usage environment	Outdoors

User interface

Push button	Configuration
LCD-display	No
Momentary values	Temperature, humidity, status
Historic values	Min, max and average values

Integration

Compatibility	Devices using the Wireless M-Bus protocol

Approvals

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

Sensor characteristics

Measurement range, temperature sensor	-20 °C to +45 °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

M-Bus

Interfaces	M-Bus slave
M-Bus standard	EN 13757-4. Communication by C1-b

M-Bus slave interface

Frequency, Wireless M-Bus	868.95 MHz
Transmit power	25 mW
Transmit interval	3 minutes
Encryption	Yes
Wireless M-Bus modes	C1-b

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