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.

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.

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### Mechanics
- **Casing material**: Polystyrol
- **Protection class**: IP65
- **Dimensions**: 110 x 100 x 52 mm
- **Weight**: 140 g
- **Connection M-Bus**: Screw terminal <1.5 mm²
- **Mounting**: Wall mounted

### 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

### 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 %