

Room humidity transmitter with display 4-20 mA

Article number: 801110 2022

Our room humidity transmitter with a current output of 4-20 mA and display can be easily installed using screws. This device measures the humidity and optionally the temperature. The room humidity transmitter with 4-20 mA display is ideal for the precise measurement of humidity and temperature in indoor areas such as offices, supermarkets and schools. The two-line display shows you either the humidity or the temperature in large format.



| Supply and output | | |
|-------------------|-------------------------|--|
| Output 4 - 20 mA | | |
| Power consumption | < 1,1 VA / 24 V DC | |
| Voltage supply | 15 - 36 V DC | |
| Connection type | See connection diagrams | |

General information

| Load | Ra (Ohm) = (Ub -14 V) / 0,02 A | |
|---------|--|--|
| Sensors | Digital humidity sensor, optionally with integrated temperature sensor | |

| Humidity | | | |
|--|---|--|--|
| Measuring element humidity Digital humidity sensor (low hysteresis, high long-term sta | | | |
| Measuring range humidity | 0 % RH to 100 % RH | | |
| Output humidity | 4-20 mA | | |
| Accuracy humidity | \pm 2.0 % (20 % RH to 80 % RH) at +25 °C, otherwise \pm 3.0 % | | |
| Long-term stability | ± 1 % / year | | |

Temperature

| Measuring element Temperature | Pt1000, DIN EN 60751, Class B |
|-------------------------------|---------------------------------|
| Measuring range temperature | 0 °C to +50 °C |
| Output temperature | 4 - 20 mA |
| Accuracy temperature | typically \pm 0.2 K at +25 °C |

Ambient conditions

| Storage temperature -25 °C to +50 °C | | |
|--------------------------------------|--|--|
| Operating temperature | -5 °C to +55 °C | |
| Permissible air humidity | 0 % RH to 95 % RH (without condensation) | |
| | | |

| Certifications / Standards | | |
|----------------------------|---|--|
| Protection class | III (according to EN 60 730) | |
| Protection type | IP 30 according to EN 60 529 | |
| Standards | CE conformity electromagnetic compatibility according to EN 61326 according to EMC Directive 2014/ 30/ EU | |

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Please find our whole temperature probe and transmitter portfolio in our webshop at: <u>www.testo-sensor.shop</u>

Configurable options

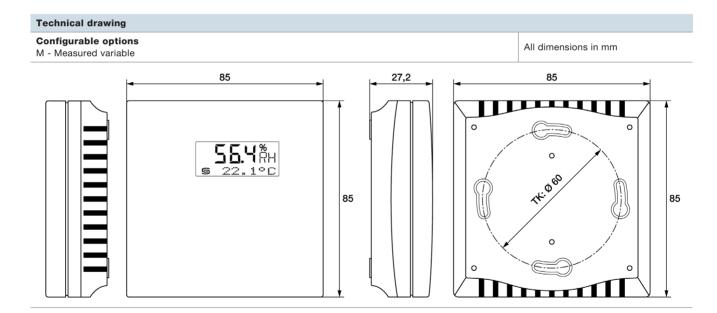
M - Measured variable





| Housing | | Drilling template |
|----------------------------|---|-------------------|
| Material | Plastic Material ABS | 85 |
| Dimensions (L/W/H) (mm) | 85 x 85 x 27 | |
| Color | Pure white (similar to RAL 9010) | |
| Electrical connection | 0.14 - 1.5 mm ² , via screw terminals on circuit board | |
| Display | | 85 |
| Two lines, lighted, For | display of actual temperature and self-diagnostics | |
| Cut-out (B/H) (mm) | ca. 36 x 15 | |
| | | |

| Your order code | | M - Measured variable | | | |
|-----------------|----------------------|-----------------------|---|----------------------|---|
| Article number | Measured variable | code | Measured variable | Delivery and Packing | |
| 801110 2022 | | M1 | % RH (Relative humidity) | Packing | individually packed in cardboard box |
| | | M2 | °C + % RH (Temperature and relative humidity) | Delivery | Transmitter, Operating instructions |



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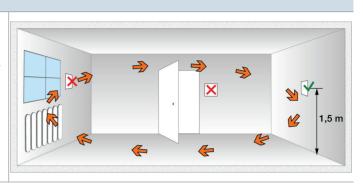
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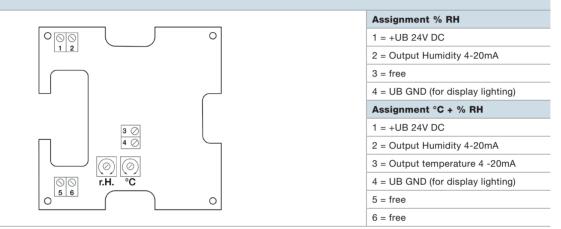
Important assembly instructions

For precise measurement of room temperature and humidity, it is crucial to take into account both the temperature dynamics and the humidity dynamics in the room. Air circulation should only take place through the openings in the housing cover. Therefore, the transmitter should be installed away from objects or obstacles that could block air movement. Also avoid uncontrolled air currents (draughts) by installing the transmitter near doors or windows. The transmitter should also not be installed on the colder outside wall to prevent measurement inaccuracies.



The device should only be used in pollutant-free, non-condensing air (< 95 $\%\,$ RH).

Circuit diagrams and assignment (Please also read the operating instructions before connecting the transmitter) Wiring diagram



The humidity path must be connected for the current version! Please refer to the operating instructions for the correct connection.

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