

HUMIDITY/TEMPERATURE TRANSMITTERS FOR INDOOR APPLICATIONS

The EE09 transmitters are developed especially for heating, ventilation and air conditioning applications in the range of 10 .. 90 %RH, and 0..50 degC. The following types are available: humidity-, temperature-, and combined humidity/temperature transmitters, all with an output signal of 0-10 V or 4-20 mA .

The excellent product characteristics like the high measuring accuracy and the excellent long term stability are achieved by using the successfully employed and proven E+E humidity sensor HC1000. The high reproducibility of the sensor characteristics allow a simple and an economy-priced one point calibration.

A compact and attractive designed housing in combination with the electronics, which is optimally tuned to the sensor element, leads to a transmitter with excellent price performance ratio.

The series EE09 in combination with the series EE15 duct mounting version, means the ideal solution for almost all climate purposes in the field of residential and official buildings.

Additionally the model EE09-F3 (humidity version 0-10 V) is available with a local LC-display, which shows the actual measurement readings.



TYPICAL APPLICATIONS

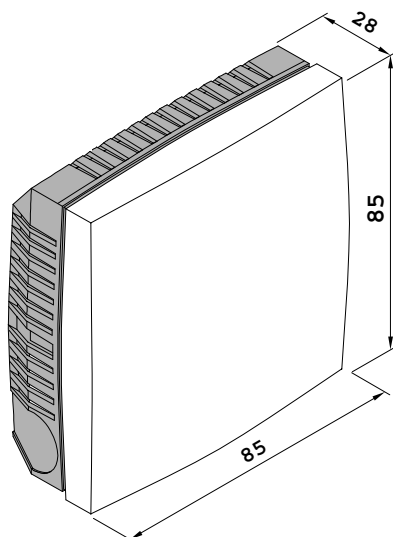
- HVAC
- building automation
- electrical switching panels

TECHNICAL DATA

| | | | |
|---------------------------------------|---|-------------------------|-----------------------------|
| Humidity sensor | HC 1000 | | |
| Working humidity range ¹⁾ | 10...90 % RH | | |
| Accuracy humidity at 20 degC | | | |
| voltage output | ±3 % RH | | |
| current output | ±3 % RH (40...60 %), ±5 % RH (10...90%) | | |
| Temperature dependance at 45% RH | typical -0,05 % RH/degC | | |
| Temperature sensor | Pt 1000 (DIN EN 60751, class A) | | |
| Working temperature range | 0...50 degC | | |
| Accuracy temperature at 20 degC, 24 V | | | |
| voltage output | ±0,3 degC | | |
| current output | ±0,5 degC | | |
| Output signal appropriate | signal | supply voltage SELV | supply current |
| 0...100 % RH | 0-10 V <1 mA | 15-35 V DC | 10 mA |
| | | 24 V AC ±20% (50-60 HZ) | 20 mA |
| 0...50 degC | 4-20 mA | 20-28 V DC | for R _L <500 Ohm |
| | | 11-28 V DC | for R _L <50 Ohm |
| Electromagnetic compatibility | corresponding EN 50081-1 and EN 55104 | | CE |
| Temperature range | working | -5 ... +50 degC | |
| | storage | -30 ... +60 degC | |

1) Pay attention to the working range of the humidity sensor HC1000

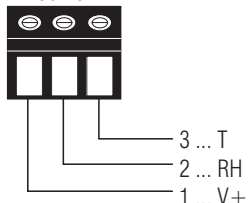
HOUSING



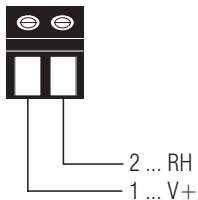
Dimensions in mm
Please note correct orientation!

CONNECTION DIAGRAM

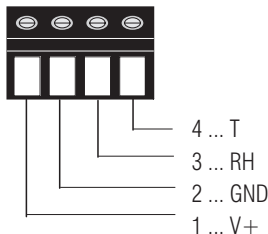
EE09 - FT6
EE09-T6



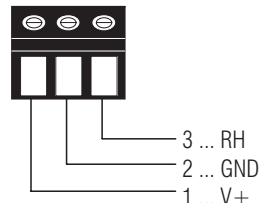
EE09 - F6



EE09 - FT3
EE09 - T3



EE09 - F3



TECHNICAL DATA HOUSING

| | |
|------------|---|
| Connection | Screw terminals max. 1,5mm ² |
| Housing | PC / IP20 |
| Dimensions | 85 x 85 x 28 mm |

ORDER INFORMATION

| SERIES | |
|---------|---------------------------------|
| EE 09 | |
| CODE 1 | MODEL |
| FT | humidity + temperature |
| F | humidity |
| T | temperature |
| CODE 2 | OUTPUT |
| 3 | 0 - 10 V |
| 6 | 4 - 20 mA |
| CODE | DISPLAY (only version EE 09 F3) |
| no code | without display |
| D02 | with display |

Order example: EE09-FT3: model: humidity/temperature transmitter, output: 0-10V



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