

EE061

OEM Humidity / Temperature Transmitter with Current Output

EE061 probes are the ideal solution for cost-effective, highly accurate and reliable measurement of relative humidity and temperature.

The analogue humidity output provides a current signal with 4-20 mA.

A passive temperature output signal is available.

Wide temperature and supply voltage ranges, excellent long term stability and the optional sensor coating allow the use in many applications.



EE061

Typical Applications

- stables
- green houses
- humidifiers and dehumidifiers
- monitoring of storage rooms

Features

- excellent price/performance ratio
- very good long term stability
- easy installation
- compact design

Technical Data

Measuring values

Relative humidity

Sensor	HC105
Working range ¹⁾	0...100 % RH
Analogue output 0...100 % RH	4...20 mA (two wire) $R_i < 500 \text{ Ohm}$
Accuracy at 20 °C (68 °F), 12 V DC	$\pm 3 \text{ % RH}$ (10...90 % RH) $\pm 5 \text{ % RH}$ (<10 % RH and >90 % RH)
Temperature dependence [% RH/°C]	typ. ± 0.03

Temperature passive

Output	resistive, 4 wire
Type of T-Sensor	refer to ordering guide

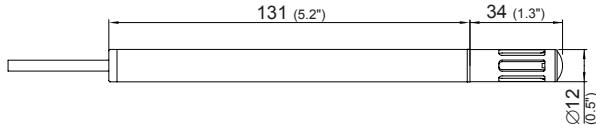
General

Supply voltage	9 V DC - 28 V DC
Current consumption	typ. 1.5 mA
Electrical connection	cable with 0.5 m (1.6 ft) / 3 m (9.8 ft) / 10 m (32.8 ft)
Housing	polycarbonate IP65
Sensor protection	membrane filter, metal grid filter
Electromagnetic compatibility	EN61326-1 EN61326-2-3
Temperature ranges	working temperature: -40...+60 °C (-40...140 °F) storage temperature: -40...+60 °C (-40...140 °F)



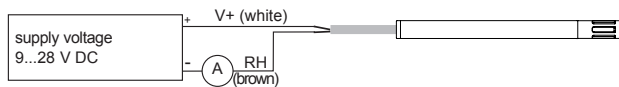
1) Refer to the working range of the humidity sensor

Dimensions (mm)

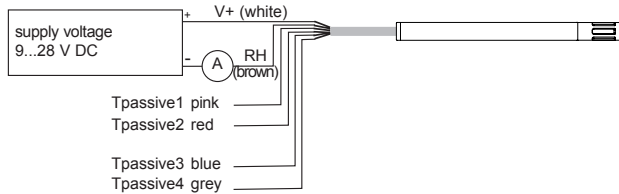


Connection Diagram

with active humidity output:



with active humidity output and passive T-sensor:



Ordering Guide

MODEL	OUTPUT	T-SENSOR ¹⁾ (passive only)	FILTER	COATING	CABLE LENGTH
humidity (F)	4 - 20 mA (6)	Pt100 DIN A (A)	membrane filter (1)	without coating (no code)	0.5 m (1.6 ft) (co code)
humidity+temperature passive (FP)		Pt1000 DIN A (C)	metal grid filter (6)	with coating (HC01)	3 m (9.8 ft) (K300)
		NTC 10K at 25°C (E)			10 m (32.8 ft) (K1000)
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1) T-Sensor details see www.epluse.com/R-T_Characteristics

Order Example

EE061-FP6A6HC01K300

model: humidity+temperature passive
output: 4 - 20 mA
T-sensor: Pt 100 DIN A

filter: metal grid filter
coating: with coating
cable length: 3 m

Accessories

For more information please refer to data sheet "Accessories"

Scope of Supply

- EE061 Transmitter according to ordering guide