

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 4-20mA.

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...20mA (two wire) $R_t < 500\Omega$
Accuracy at 20°C (68°F), 12V DC	±3% RH (10...90% RH) ±5% 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

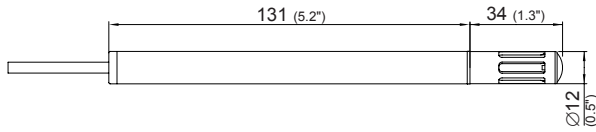
General

Supply voltage	9V DC - 28V DC
Current consumption	typ. 1.5 mA
Electrical connection	cable with 0.5m (1.6ft) / 3m (9.8ft) / 10m (32.8ft)
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)



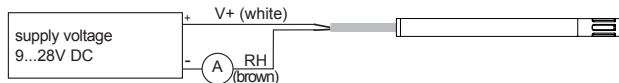
1) Refer to the working range of the humidity sensor

Dimensions (mm)

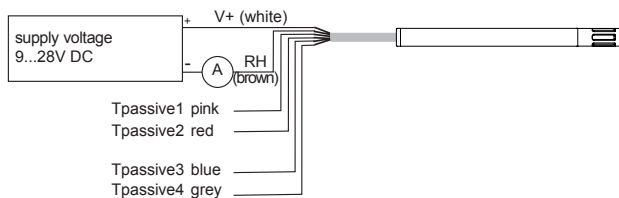


Connection Diagram

with active humidity output:



with active humidity output and passive T-sensor:



Ordering Guide

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

EE061-FP6A6HC01K300

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

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

Accessories

For more information please refer to data sheet "Accessories"