

# 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.



### 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 <sup>1)</sup>	0...100% RH
Analogue output 0...100% RH	4...20mA (two wire) $R_L < 500\Omega$
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 active

Sensor	Pt1000 (class A, DIN EN 60751)
Analogue output -40...60°C (-40...140°F)	0-1 V $-0.2\text{ mA} < I_L < 0.2\text{ mA}$
Accuracy at 12V DC, 20°C (68°F)	±0.3°C (±0.5°F)

##### Temperature passive

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

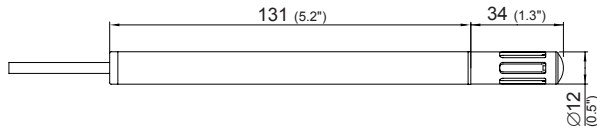
#### General

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)



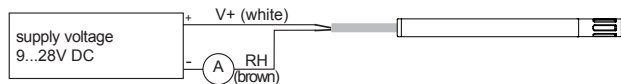
1) Refer to the working range of the humidity sensor

## Dimensions (mm)

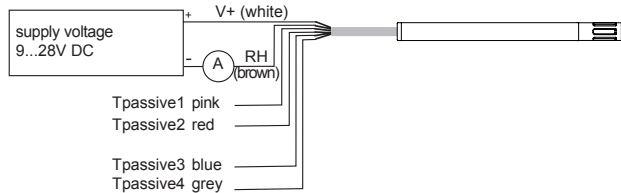


## Connection Diagram

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) NTC 10K at 25°C (E)	metal grid filter (6)	with coating (HC01)	3m (9.8ft) (K300) 10m (32.8ft) (K1000)
<b>EE061-</b>					

## 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"