

# EE06 Series

# EE061 Series

## Small Size Humidity / Temperature Transmitter for OEM Applications

The analogue humidity output provides according to model type, a current signal with 4-20mA or a voltage signal with 0-1V. A passive temperature output signal is available for both versions.

The voltage version can be ordered also with an active output.

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



EE06 / EE061

### Typical Applications

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

### Features

- very small dimensions
- excellent price/performance ratio
- very good long term stability
- easy installation
- optional sensor coating

### Technical Data

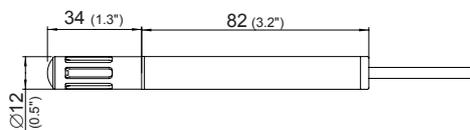
Measuring values	EE06-x1 (voltage output)	EE061-x6 (current output)
<b>Relative humidity</b>		
Sensor	HC101	HC105
Working range <sup>1)</sup>	0...100% RH	0...100% RH
Analogue output 0...100% RH	0-1 V    -0.2 mA < I <sub>L</sub> < 0.2 mA	4...20mA (two wire) R <sub>L</sub> < 500 Ohm
Accuracy at 20°C (68°F), 12V DC	±3% RH (10...90% RH) ±5% RH (<10% RH and >90% RH)	±3% RH (10...90% RH) ±5% RH (<10% RH and >90% RH)
Temperature dependence [% RH/°C]	model F/FT: -0.00035 x RH x (T-20°C) model FP: typ. (-0.003 x RH + 0.01) x (T-20°C)	model F/FP: typ. ±0.03
<b>Temperature active</b>		
Sensor	Pt1000 (class A, DIN EN 60751)	
Analogue output -40...60°C (-40...140°F)	0-1 V    -0.2 mA < I <sub>L</sub> < 0.2 mA	
Accuracy at 12V DC, 20°C (68°F)	±0.3°C (±0.5°F)	
<b>Temperature passive</b>		
Output	resistive, 2 wire	resistive, 4 wire
Type of T-Sensor	refer to ordering guide	refer to ordering guide
<b>General</b>		
Supply voltage	4.5V DC - 30V DC	9V DC - 28V DC
Current consumption	typ. 1.5 mA	
Electrical connection	cable with 0.5m (1.6ft) or 3m (9.8ft)	cable with 0.5m (1.6ft) or 3m (9.8ft)
Housing	polycarbonate / IP65 in vertical mounting (filter cap upside)	polycarbonate IP65
Sensor protection	membrane filter, metal grid filter	membrane filter, metal grid filter
Electromagnetic compatibility	EN61326-1 EN61326-2-3	EN61326-1 EN61326-2-3
Temperature ranges	working temperature: -40...60°C (-40...140°F) storage temperature: -40...65°C (-40...149°F)	working temperature: -40...60°C (-40...140°F) storage temperature: -40...70°C (-40...158°F)

1) Refer to the working range of the humidity sensor

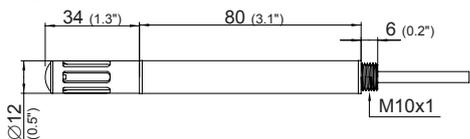
## Dimensions (mm)

### EE06-x1 (voltage output)

#### Type A:

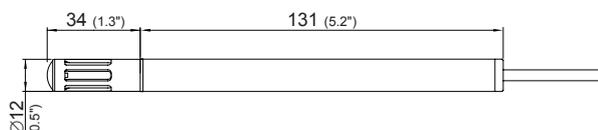


#### Type C:



### EE061-x6 (current output)

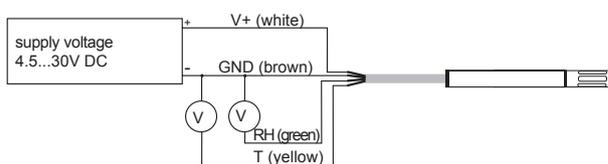
#### Type A:



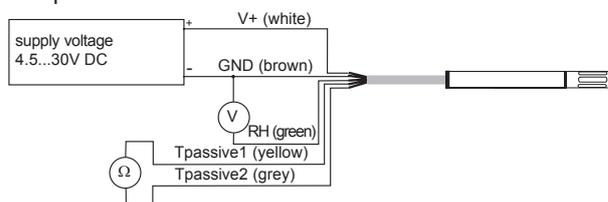
## Connection Diagram

### EE06-x1 (voltage output):

with active T-output:

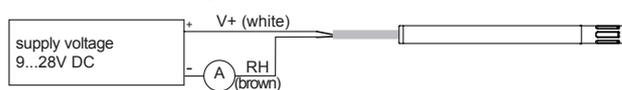


with passive T-sensor:

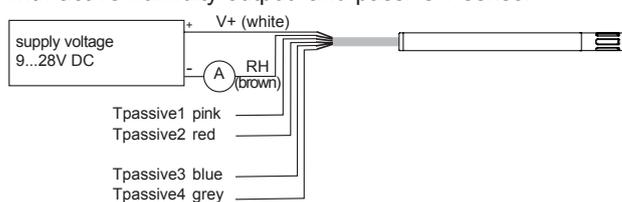


### EE061-x6 (current output):

with active humidity output:



with active humidity output and passive T-sensor:



## Ordering Guide

### EE06 (Voltage Output):

MODEL	OUTPUT	T-SENSOR (passive only)	TYPE	FILTER	COATING	CABLE LENGTH
humidity + temperature (FT)	0 - 1V (1)	Pt 100 DIN A (A)	with housing (A)	membrane filter (1)	without coating (no code)	0.5m (1.6ft) (co code)
humidity (F)		Pt 1000 DIN A (C)	with thread (C)	metal grid filter (6)	with coating (HC01)	3m (9.8ft) (K300)
humidity+temperature passive (FP)		NTC 10K at 25°C (E)				10m (K1000)
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### EE061 (Current Output):

MODEL	OUTPUT	T-SENSOR (passive only)	FILTER	COATING	CABLE LENGTH
humidity (F)	4 - 20mA (6)	Pt 100 DIN A (A)	membrane filter (1)	without coating (no code)	0.5m (1.6ft) (co code)
humidity+temperature passive (FP)		Pt 1000 DIN A (C)	metal grid filter (6)	with coating (HC01)	3m (9.8ft) (K300)
		NTC 10K at 25°C (E)			10m (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"