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EE06 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.

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)
Relative humidity		
Sensor	HC101	HC105
Working range[1)]	0...100% RH	0...100% RH
Analogue output 0...100% RH	0-1 V -0.2 mA < I_L < 0.2 mA	4...20mA (two wire) R_L<500Ohm
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
Temperature active		
Sensor	Pt1000 (class A, DIN EN 60751)	
Analogue output -40...60°C (-40...140°F)	0-1 V -0.2 mA < I_L < 0.2 mA	
Accuracy at 12V DC, 20°C (68°F)	±0.3°C (±0.5°F)	
Temperature passive		
Output	resistive, 2 wire	resistive, 4 wire
Type of T-Sensor	refer to ordering guide	refer to ordering guide
General		
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

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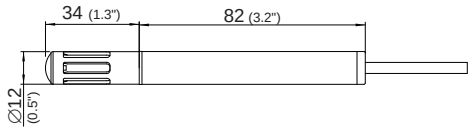
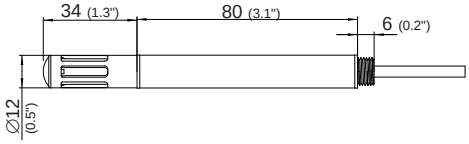
Dimensions (mm)

EE06-x1 (voltage output)

Type A:

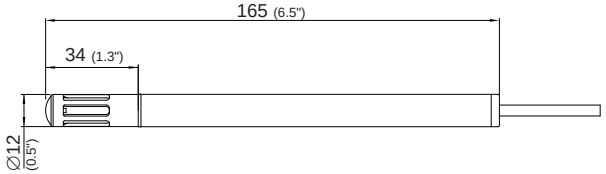


Type C:



EE061-x6 (current output)

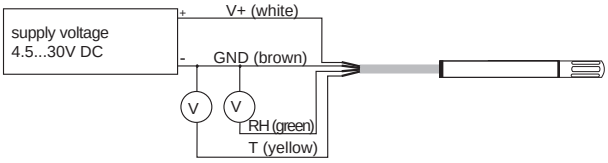
Type A:



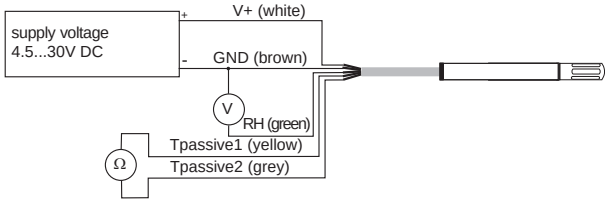
Connection Diagram

EE06-x1 (voltage output):

with active T-output:

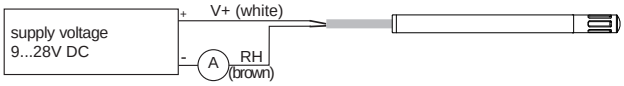


with passive T-sensor:

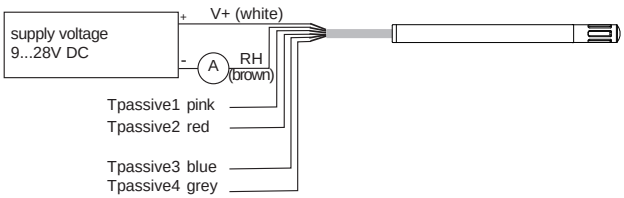


EE061-x6 (current output):

with active humidity output:



with active humidity output and passive T-sensor:



Ordering Guide

Voltage Output:

MODEL	OUTPUT	T-SENSOR (passive only)	TYPE	FILTER	COATING	CABLE LENGTH
humidity + temperature (FT) humidity (F) humidity+temperature passive (FP)	0 - 1V (1)	Pt 100 DIN A (A) Pt 1000 DIN A (C) NTC 10K at 25°C (E)	with housing (A) with thread (C)	membrane filter (1) metal grid filter (6)	without coating (no code) with coating (HC01)	0.5m (1.6ft) (co code) 3m (9.8ft) (K300)
EE06-						

Current Output:

MODEL	OUTPUT	T-SENSOR (passive only)	FILTER	COATING	CABLE LENGTH
humidity (F) humidity+temperature passive (FP)	4 - 20mA (6)	Pt 100 DIN A (A) Pt 1000 DIN A (C) NTC 10K at 25°C (E)	membrane filter (1) metal grid filter (6)	without coating (no code) with coating (HC01)	0.5m (1.6ft) (co code) 3m (9.8ft) (K300)
EE061-					

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"