

EE06 Series

Small Size Transmitter for Humidity and Temperature

EE06 series are compact transmitters for humidity, and combined humidity/temperature measurement with excellent price / performance ratio.

They are optimised for OEM applications and available with or without housing. With appropriate filter cap EE06 can operate successfully even in harsh environments. The analogue output for both humidity and temperature is 0-1 V.

The temperature output signal can be active or passive. The very small dimensions, low energy consumption and supply voltages down to 4.5 V allow cost-effective and easy positioning of the transmitters.



EE06

Typical Applications

- humidifiers and dehumidifiers
- climate controls in museums, hotels
- monitoring of storage rooms
- photostatic machines control
- meteorological applications

Features

- very small dimensions
- excellent price-performance-ratio
- long term stability
- easy installation
- low energy consumption

Technical Data

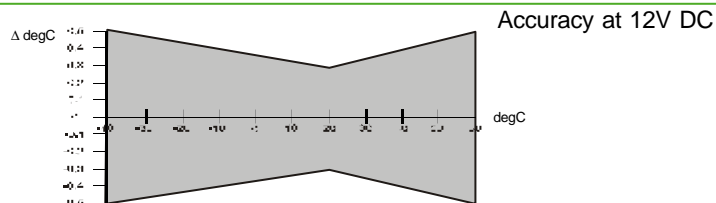
Measuring values

Relative humidity

Sensor	HC101			
Output appropriate 0...100% RH	0-1 V	-0.2 mA < I _L < 0.2 mA		
Working range ¹⁾	model A	0...100% RH	model C	0...100% RH
	model B	0...95% RH		
Accuracy at 20 degC, 12V DC	±3% RH (0...95% RH)			
Temperature dependence	d RH = -0.00035 x RH x (T-20°C)			

Temperature (active output)

Sensor	Pt1000 (class A, DIN EN 60751)			
Output appropriate -40...60 degC	0-1 V	-0.2 mA < I _L < 0.2 mA		



Temperature (passive output)

Type of T-Sensor	please see ordering guide
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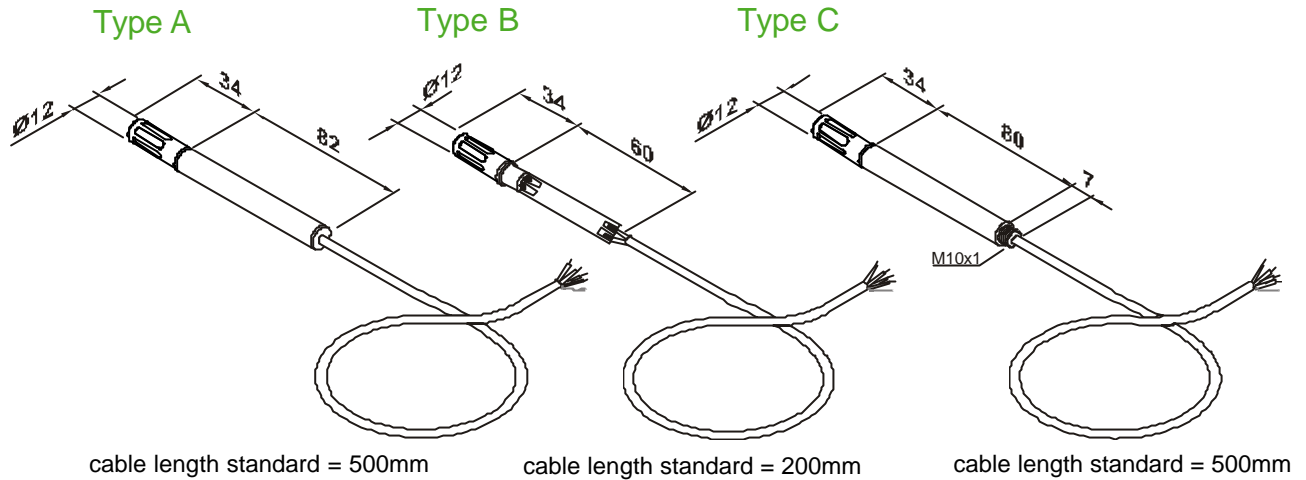
General

Supply voltage	4.5V DC - 30V DC
Current consumption	typ. 1.5 mA
Housing	Polycarbonat / IP65 (Model A) in vertical mounting
Sensor protection	membrane filter, sintered bronze filter, plastic grid, metal grid filter
Electromagnetic compatibility	EN 61000-6-3 EN 61000-6-1
Temperature range	working temperature: -40 ... +60 degC storage temperature: -40 ... +65 degC

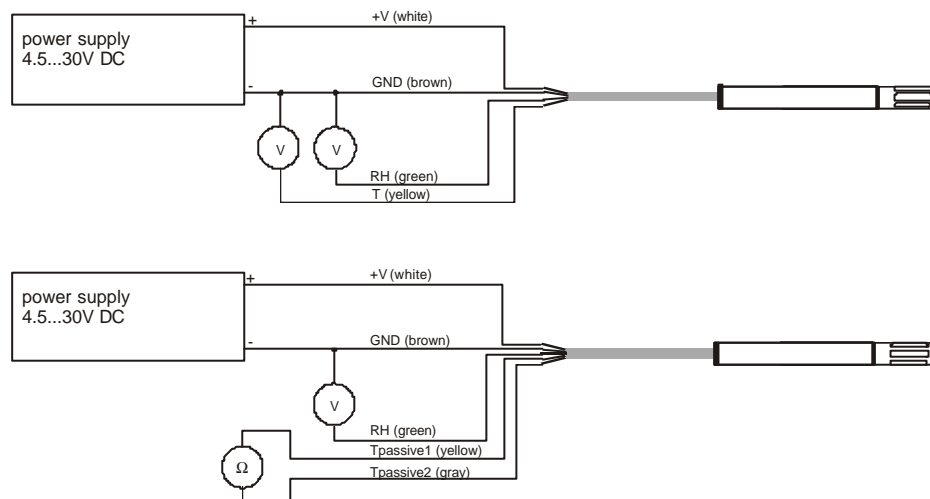


1) Refer to the working range of humidity sensor HC101

Housing dimensions (mm)



Connection Diagram



Ordering Guide

MODEL	OUTPUT	T-SENSOR (only passive)	TYPE	FILTER	CABLE LENGTH (Type A + C)
humidity and temperature (FT)	0 - 1 V (1)	Pt 100 DIN A (A)	with housing (A)	membrane filter (1)	0.5 m (no code)
humidity (F)		Pt 100 DIN B (B)	without housing (B)	sintered bronze filter (2)	1.5 m (K150)
humidity and temperature passive (FP)		Pt 1000 DIN A (C)	with thread (C)	plastic grid (4)	3 m (K300)
		Pt 1000 DIN B (D)		metal grid filter (6)	5 m (K500)
		NTC 10K at 25 degC (E)			10 m (K1000)
EE06-					

Order Example

EE06-FT1A1-K300

model: humidity and temperature
 output: 0-1 V
 housing: with housing
 filter: membrane filter
 cable length: 3m