

EE06 Series

Small Size Humidity/Temperature Transmitters for OEM Applications

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

The transmitters are optimised for OEM applications.

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.



Typical Applications

humidifiers and dehumidifiers
climate control in museums
monitoring of storage rooms
photostatic machines control

Features

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

Technical Data

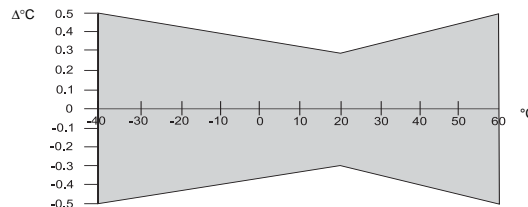
Measuring values

Relative humidity

Sensor	HC101		
Output appropriate 0...100% RH	0-1 V	-0.2 mA < I _L < 0.2 mA	
Working range ¹⁾	0...100% RH		
Accuracy at 20°C (68°F), 12V DC	±3% RH (10...90% RH)	±5% RH (<10% RH and >90% RH)	
Temperature dependence	model F/FT	d RH = -0.00035 x RH x (T-20°C)	
	model FP	d RH = typ. (-0.003 x RH + 0.01) x (T-20°C)	

Temperature (active output)

Sensor	Pt1000 (class A, DIN EN 60751)		
Output appropriate -40...60°C (-40...140°F)	0-1 V	-0.2 mA < I _L < 0.2 mA	
Accuracy at 12V DC			



Temperature (passive output)

Type of T-Sensor	refer to ordering guide
------------------	-------------------------

General

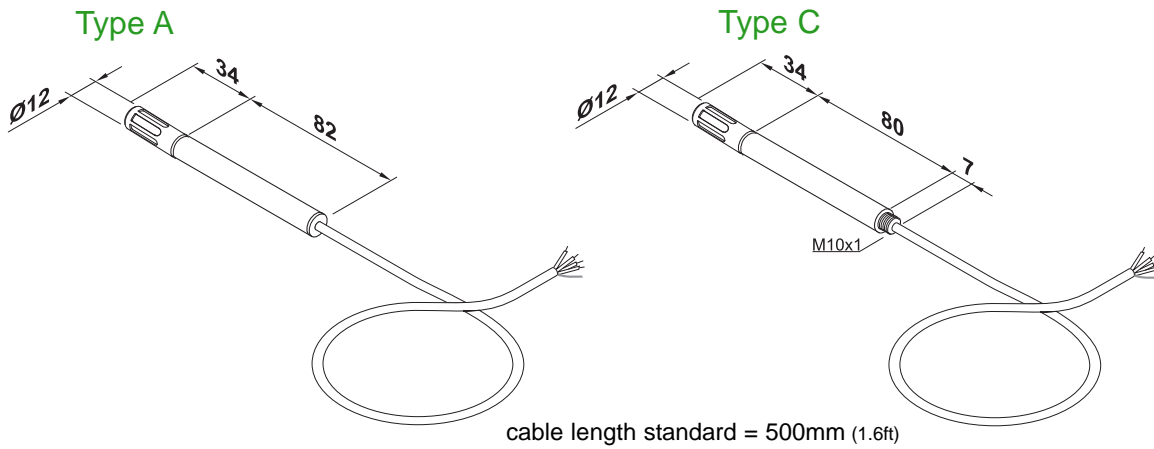
Supply voltage	4.5V DC - 30V DC	
Current consumption	typ. 1.5 mA	
Housing	polycarbonate / IP65 in vertical mounting (filter cap upside)	
Sensor protection	membrane filter, metal grid filter	
Electromagnetic compatibility	EN 61000-6-3	EN 61000-6-1
	FCC Part15 ClassB	ICES-003 ClassB
Temperature range	working temperature: -40...60°C (-40...140°F)	
	storage temperature: -40...65°C (-40...149°F)	



¹⁾ refer to the working range of HC101

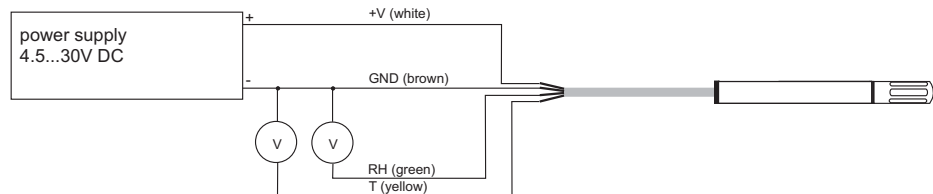
Housing dimensions (mm)

1 mm = 0.03937" / 1" = 25.4 mm

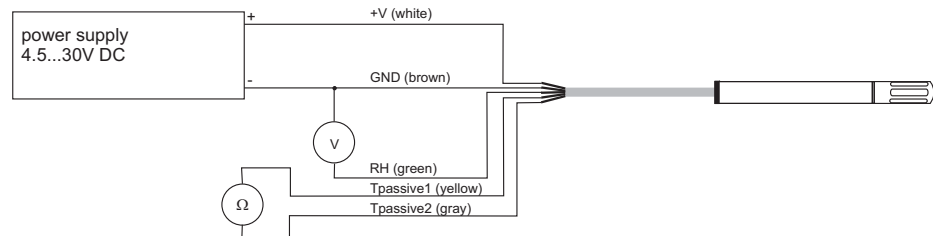


Connection Diagram

EE06 with active T-output



EE06 with passive T-sensor



Ordering Guide

MODEL	OUTPUT	T-SENSOR (passive only)	TYPE	FILTER	CABLE LENGTH
humidity and temperature (FT)	0 - 1 V (1)	Pt 100 DIN A (A)	with housing (A)	membrane filter (1)	0.5m (1.6ft) (no code)
humidity (F)		Pt 100 DIN B (B)	with thread (C)		metal grid filter (6)
humidity and temperature passive (FP)		Pt 1000 DIN A (C)			3m (9.8ft) (K300)
		Pt 1000 DIN B (D)			5m (16.4ft) (K500)
		NTC 10K at 25°C (E)			10m (32.8ft) (K1000)
EE06-					

Accessories

for more information please refer to data sheet "Accessories"

Order Example

EE06-FT1A1-K300

model: humidity and temperature
 output: 0-1 V
 housing: with housing
 filter: membrane filter
 cable length: 3m (9.8ft)