



## OEM Humidity / Temperature Transmitter with Voltage Output

EE060 probes are the ideal solution for cost-effective, highly accurate and reliable measurement of relative humidity and temperature.

Excellent protection against external influences is ensured by the combination of completely encapsulated electronics and the long-term stable HCT01 sensor with E+E proprietary protective coating. EE060 is available with an integrated cable or a threaded connector, with wide temperature and supply voltage ranges and dual 0-1V, 0-5V or 0-10V analog outputs, for humidity and temperature.



## **Typical Applications**\_

stables, incubators, hatchers green houses humidifiers and dehumidifiers monitoring of storage rooms HVAC applications very small dimensions excellent price/performance ratio very good long term stability easy installation well protected against dust and dirt

**Features** 

## **Technical Data**

#### Measuring values

weasuring values		
Relative humidity		
Sensor	HCT01-00D	
Working_range <sup>1)</sup>	0100% RH	
Analogue output 0100% RH	0-10V -1.0 mA < I <sub>L</sub> < 1.0 mA	
	0-5V -0.2 mA < I_ < 0.2 mA	
	0-1V -0.1 mA < I < 0.1 mA	
Accuracy at 24V DC, 20°C (68°F) and 0.2m/s (40 ft/min)	±2.5% RH	
Temperature active		
Sensor	Pt1000 DIN B	
Analogue output -4060°C (-40140°F)	0-10V -1.0 mA < I < 1.0 mA	
<b>.</b>	0-5V -0.5 mA < l < 0.5 mA	
	0-1V -0.1 mA < L < 0.1 mA	
Accuracy at 24V DC, 20°C (68°F)	±0.3°C (±0.5°F)	
Temperature passive (with 0-1V o	utput and 8-pole connector only)	
Output	resistive, 2-wire	
Type of T-Sensor	refer to ordering guide	
General		
Supply voltage	HT1: 3.630V DC	
	HT2: 1030V DC	
	HT3: 1530V DC	
Current consumption	typ. 1.5 mA	
Electrical connection	cable or M12 connector	
Housing	polycarbonate / IP65	
Sensor protection	membrane filter	
Electromagnetic compatibility <sup>2)</sup>	EN61326-1	((
(industrial environment)	EN61326-2-3	
Temperature ranges	working temperature: -40+60°C (-40140°F)	
	storage temperature: -40+60°C (-40140°F)	
	5	

Refer to the working range of the humidity sensor!
Analogue output 0-1V is not protected against surge!

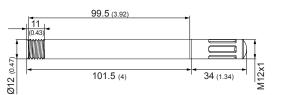




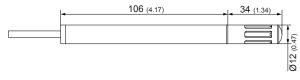
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### **Dimensions in mm (inch)**

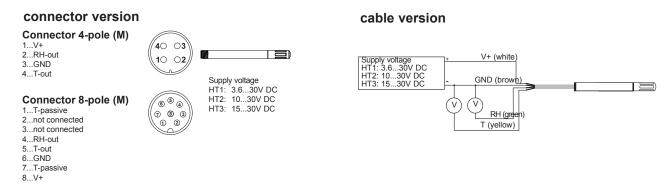
#### connector version



# cable version



## **Connection Diagram**



## **Ordering Guide**

ANALOG OUTPUT		T-SENSOR PASSIVE (with 0-1V output and 8-pole connector only)		ELECTRICAL CONNECTION		CABLE LENGTH		FILTER
0 - 1V	(1)	none	(x)	connector 4-pole	(PM)	0.5m (1.6ft)	(A)	membrane filter (B)
0 - 5V	(2)	Pt1000 DIN A	(C)	connector 8-pole (forT-Sensor passive)	(PV)	1.5m (4.9ft)	(C)	
0 - 10V	(3)	NTC 10k at 25°C	(E)	cable	(PN)	3m (9.8ft)	(E)	
						with connector	(x)	
EE060	HT-							

## Order Example\_

#### EE060-HT2xPMxB

Output:	0-5V	Output:
T-Sensor passive:	none	T-Sensor passive:
El. Connection:	connector 4-pole	El. Connection:
Cable length:	with connector	Cable length:
Filter:	membrane filter	Filter:

#### EE060-HT1CPVxB

put: ensor passive: Connection: le length:	0-1V Pt1000 DIN A connector 8-pole with connector
er:	membrane filter

### **Accessories**

**EE060** 

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Female connector 4pol. self assembly M12x1	HA010707
Female connector 8pol. self assembly M12x1	HA010704
Connection cable 4pol. M12x1 male-female, shielded, 2m (6.5ft)	HA010816
Connection cable 4pol. M12x1 male-female, shielded, 5m (16.4ft)	HA010817
Connection cable 4pol. M12x1 male-female, shielded, 10m (32.8ft)	HA010818
Connection cable 8pol. M12x1-female - free cable end, shielded, 3m (9.8ft)	HA010323
Connection cable 8pol. M12x1-female - free cable end, shielded, 5m (16.4ft)	HA010324
Connection cable 8pol. M12x1-female - free cable end, shielded, 10m (32.8ft)	HA010325
Plastic mounting flange for duct mounting	HA010202

