

EE060

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.

The result of the wide temperature range and the flexible supply voltage in combination with the excellent long-term stability is a versatile applicable probe.



Typical Applications_

stables, incubators, hatchers green houses humidifiers and dehumidifiers monitoring of storage rooms HVAC applications

Features

excellent price/performance ratio
very good long term stability
easy installation
well protected against dust and dirt

Technical Data

Measuring values

	ımidity	

Relative numicity		
Sensor	HCT01-00D	
Working range	0100% RH	
Analogue output 0100% RH	$0-10V -1.0 \text{ mA} < I_{L} < 1.0 \text{ mA}$	
	0-5V -0.2 mA < I _L < 0.2 mA	
	0-1V -0.1 mA < I _L < 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)	$0-10V -1.0 \text{ mA} < I_{L} < 1.0 \text{ mA}$	
	0-5V -0.5 mA < I _L < 0.5 mA	
	0-1V -0.1 mA < I _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	
eral		
Supply voltage	HT1: 3.630V DC / HT2: 1030V DC / HT3: 1530V DC	
Current consumption	typ. 1.5 mA	
Electrical connection	M12 connector or cable (PVC, Ø 4.3mm, 4 x 25mm²)	
Housing	polycarbonate / IP65	
Electromagnetic compatibility 2)	EN61326-1	$C \in$
(industrial environment)	EN61326-2-3	
Working and storage temperature	-40+60°C (-40140°F)	
1) Analogue output 0-1V is not protected against surge	!	

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Supply voltage HT1: 3.6...30V DC

HT2: 10...30V DC HT3: 15...30V DC



Dimensions in mm (inch)

connector version

99.5 (3.92) 101.5 (4)

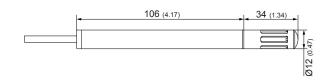
40 03

10 02

6 ⁵ ₄

7 8 3 0 2 //

cable version



Connection Diagram

connector version

Connector 4-pole (M)

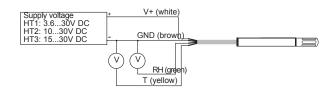
- 2...RH-out 3...GND
- 4...T-out

Connector 8-pole (M)

- 1...T-passive 2...not connected
- 3...not connected 4...RH-out
- 5...T-out

- 6...GND 7...T-passive 8...V+

cable version



Ordering Guide

ANALO OUTPU		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 EE060-HT1CPVxB

Output: 0-5V Output: 0-1V

T-Sensor passive: none T-Sensor passive: Pt1000 DIN A El. Connection: connector 4-pole El. Connection: connector 8-pole Cable length: with connector Cable length: with connector Filter: membrane filter Filter: membrane filter

Accessories (For further information, see data sheet "Accessories")

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
Radiation shield	HA010502

Support literature

EE060

www.epluse.com/EE060

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