

EE060

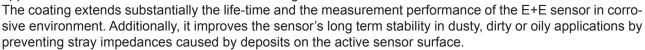
OEM Humidity / Temperature Transmitter with Voltage Output

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 0-1 V, 0-5 V or 0-10 V analogue 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.

The E+E proprietary sensor coating is a protective layer applied to the active surface of the HCT01 sensing element.





Typical Applications_

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

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

Features

Technical Data

weas	ur	In	g	value	25	
	_			-		

Sensor	HCT01-00D
Working range	0100 % RH
Analogue output 0100 % RH	$0-10 \text{ V } -1.0 \text{ mA} < I_{L} < 1.0 \text{ mA}$
	0-5 V -0.2 mA < I _L < 0.2 mA
	0-1 V -0.1 mA < I _L < 0.1 mA
Accuracy at 24V DC, 20 °C (68 °F)	±2.5 % RH
Temperature active	
Sensor	Pt1000 DIN B
Analogue output -4060 °C (-40140 °F)	0-10 V -1.0 mA < I _L < 1.0 mA
	0-5 V -0.5 mA < I ₂ < 0.5 mA
	0-1 V -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 0-1 V o	utput and 8-pole connector only)
Output	resistive, 2-wire
Type of T-Sensor	refer to ordering guide
eral	
Supply voltage	HT1: 3.630 V DC / HT2: 1030 V DC / HT3: 1530 V DC
Current consumption	typ. 1.5 mA
Electrical connection	M12 connector or cable (PVC, Ø 4.3 mm, 4 x 25 mm²)
Housing	polycarbonate / IP65
Electromagnetic compatibility 2)	EN61326-1
(industrial environment)	EN61326-2-3

1) Analogue output 0-1 V is not protected against surge!

56 **EE060** v1.5 / Modification rights reserved



Dimensions in mm (inch)

connector version

99.5 (3.92) 101.5 (4)

40 03

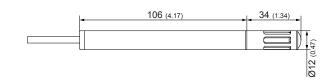
10 02

6 9 4 7 8 3 1 2

Supply voltage HT1: 3.6...30V DC HT2: 10...30V DC

HT3: 15...30V DC

cable version



Connection Diagram

connector version

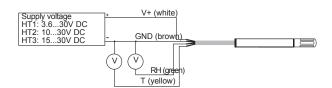
Connector 4-pole (M)

- 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

ANALOG OUTPUT		T-SENSOR PASSIVE¹) (with 0-1 V output and 8-pole connector onl	ly)	ELECTRICAL CONNECTION		CABLE LENGT	Н	FILTER	
0 - 1 V	(1)	none ((x)	connector 4-pole	(PM)	0.5 m (1.6 ft)	A)	membrane filter	(B)
0 - 5 V	(2)	Pt1000 DIN A (C)	connector 8-pole (forT-Sensor passive)	(PV)	1.5 m (4.9 ft)	C)		
0 - 10 V	(3)	NTC10k at 25 °C (E)	cable	(PN)	3 m (9.8 ft)	E)		
						with connector	(x)		
EE060-H	Т								

¹⁾ T-Sensor details see www.epluse.com/R-T_Characteristics

Order Example

EE060-HT2xPMxB EE060-HT1CPVxB

Output: 0-5 V Output:

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

Connecting cable 5 pins, M12x1 plug-socket 2 m (6.6 ft) / 5 m (16.4 ft) /10 m (32.8 ft)HA010816/HA010817/HA010818

Connecting cable 8 pins, M12x1 socket - flying leads 3 m (9.8 ft) / 5 m (16.4 ft) / 10 m (32.8 ft) HA010323/HA010324/HA010325 Connecting cable 5 pins, M12x1 socket - flying leads 1.5 m $_{(4.9 \text{ ft})}$ / 5 m $_{(16.4 \text{ ft})}$ / 10 m $_{(32.8 \text{ ft})}$ HA010819/HA010820/HA010821 Plastic mounting flange for duct mounting light grey / black HA010202/HA010214

Radiation shield HA010502

Support literature

www.epluse.com/EE060

EE060 v1.5 / Modification rights reserved

