



OEM Humidity and Temperature Probe with Voltage Output

EE060 is the ideal solution for cost-effective, highly accurate and reliable measurement of relative humidity (RH) and temperature (T).

Excellent protection against external influences is ensured by the combination of completely encapsulated electronics and the long-term stable, very robust HCT01 humidity sensor with E+E proprietary protective coating. Together with the optional radiation shield, the probe can be also used outdoors.

EE060 is available as cable or plug version, with wide temperature and supply voltage ranges and 0-1V, 0-5V or 0-10V analog outputs. The 0-1V version features also an optional T sensor with passive output.

Typical Applications_

incubators and hatchers greenhouses and livestock barns humidifiers and dehumidifiers storage rooms HVAC sensor coating sealed solder pads

Features

optimal price-performance ratio electronics encapsulated against water RH sensor coated against dust and dirt very robust sensing head excellent long term stability

Technical Data

Measuring values								
Relative humidity								
Sensor	HCT01-00D							
Working range	0100% RH							
Analogue output 0100% RH	0-10V -1.0 mA < I < 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)	±2.5% RH							
Temperature active								
Sensor	Pt1000 DIN B							
Analogue output -4060°C (-40140°F)	0-10V -1.0 mA < I, < 1.0 mA							
•	0-5V -0.5 mA < l < 0.5 mA							
	0-1V -0.1 mA < I < 0.1 mA							
Accuracy at 24V DC, 20°C (68°F)	±0.3°C (±0.5°F)							
Temperature passive (with 0-1V or	Temperature passive (with 0-1V output 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	M12 connector or cable (PVC, Ø 4.3mm, 4 x 25mm ²)							
Housing	polycarbonate / IP65							
Electromagnetic compatibility ¹⁾	EN61326-1	()						
(industrial environment)	EN61326-2-3	עכ						
Working and storage temperature	-40+60°C (-40140°F)							

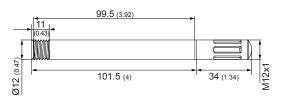
1) Analogue output 0-1V is not protected against surge!





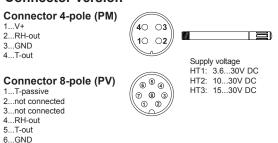
Dimensions in mm (inch)

Connector version

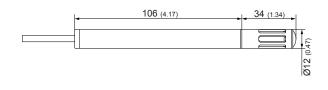


Connection Diagram

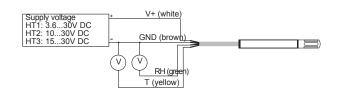
Connector version



Cable version



cable version (Type PN)



Ordering Guide

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

3...GND 4...T-out

ANALOG OUTPUT		T-SENSOR PASSIVE (with 0-1V output and 8-pole co		ELECTRICAL CONNECTION			GTH	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-H	IT 🗌								

Order Example

EE060-HT2xPMxB

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

EE060-HT1CPVxB

Output: T-Sensor passive: El. Connection: Cable length: Filter:

0-1V Pt1000 DIN A connector 8-pole with connector 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 for Type PM, free ends 1,5m (4.9ft) / 5m (16.4ft) / 10m (32.8ft)	HA0108 19/20/21
Connection cable for Type PV, free ends 1,5m (4,9ft) / 3m (9.8ft) / 5m (16.4ft) / 10m (32.8ft)	HA0103 22/23/24/25
Protection cap for M12 female cable connector	HA010781
Protection cap for M12 male probe connector	HA010782
Protection cap for 12 mm sensing head	HA010783
Plastic mounting flange for duct mounting	HA010202
Radiation shield	HA010502

Support literature_

www.epluse.com/EE060

EE060 v1.4 / Modification rights reserved

