EE061

OEM Humidity / Temperature Transmitter with Current Output

EE061 probes are the ideal solution for cost-effective, highly accurate and reliable measurement of relative humidity and temperature.
The analogue humidity output provides a current signal with 4-20mA.
A passive temperature output signal is available.

Wide temperature and supply voltage ranges, excellent long term stability and the optional sensor coating allow the use in many applications.

Typical Applications

stables
green houses
humidifiers and dehumidifiers
monitoring of storage rooms

Features

excellent price/performance ratio
very good long term stability
easy installation
compact design

Technical Data

Measuring values

Relative humidity

Sensor	HC105
Working range[1)]	0...100% RH
Analogue output 0...100% RH	4...20mA (two wire) R_L<500Ohm
Accuracy at 20°C (68°F), 12V DC	±3% RH (10...90% RH) ±5% RH (<10% RH and >90% RH)
Temperature dependence [% RH/°C]	typ. ±0.03

Temperature passive

Output	resistive, 4 wire
Type of T-Sensor	refer to ordering guide

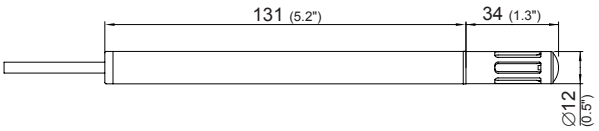
General

Supply voltage	9V DC - 28V DC
Current consumption	typ. 1.5 mA
Electrical connection	cable with 0.5m (1.6ft) / 3m (9.8ft) / 10m (32.8ft)
Housing	polycarbonate IP65
Sensor protection	membrane filter, metal grid filter
Electromagnetic compatibility	EN61326-1 EN61326-2-3
Temperature ranges	working temperature: -40...+60°C (-40...140°F) storage temperature: -40...+60°C (-40...140°F)

CE

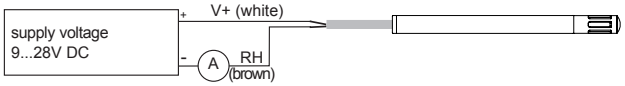
1) Refer to the working range of the humidity sensor

Dimensions (mm)

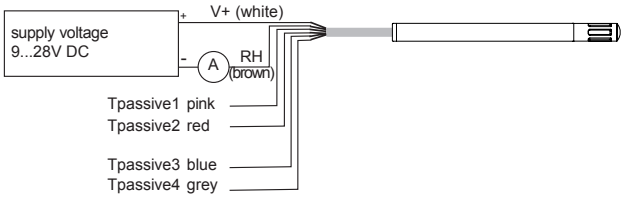


Connection Diagram

with active humidity output:



with active humidity output and passive T-sensor:



Ordering Guide

MODEL		OUTPUT		T-SENSOR (passive only)		FILTER		COATING		CABLE LENGTH	
humidity	(F)	4 - 20mA	(6)	Pt100 DIN A	(A)	membrane filter	(1)	without coating	(no code)	0.5m (1.6ft)	(co code)
humidity+temperature passive	(FP)			Pt1000 DIN A	(C)	metal grid filter	(6)	with coating	(HC01)	3m (9.8ft)	(K300)
				NTC 10K at 25°C	(E)					10m (32.8ft)	(K1000)
EE061-											

Order Example

EE061-FP6A6HC01K300

model:	humidity+temperature passive	filter:	metal grid filter
output:	4 - 20mA	coating:	with coating
T-sensor:	Pt 100 DIN A	cable length:	3m

Accessories

For more information please refer to data sheet "Accessories"