

JTH-061 Series

The analogue humidity output provides according to model type, a current signal with 4-20mA or a voltage signal with 0-1V. A passive temperature output signal is available for both versions.

The voltage version can be ordered also with an active output.

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

very small dimensions
excellent price/performance ratio
very good long term stability
easy installation
optional sensor coating

Technical Data

Measuring values

JTH-061-x6 (current output)

Relative humidity

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

Temperature active

Sensor	Pt1000 (class A, DIN EN 60751)
Analogue output -40...60°C (-40...140°F)	0-1 V $-0.2 \text{ mA} < I_L < 0.2 \text{ mA}$
Accuracy at 12V DC, 20°C (68°F)	±0.3°C (±0.5°F)

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) or 3m (9.8ft)
Housing	polycarbonate (filter cap upside) 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...70°C (-40...158°F)

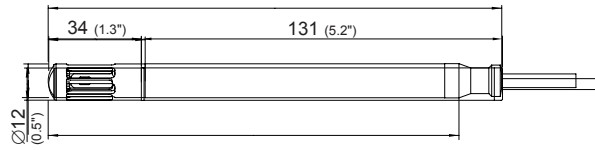
1) Refer to the working range of the humidity sensor



Dimensions (mm)

JTH-061-x6 (current output)

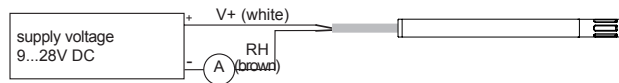
Type A:



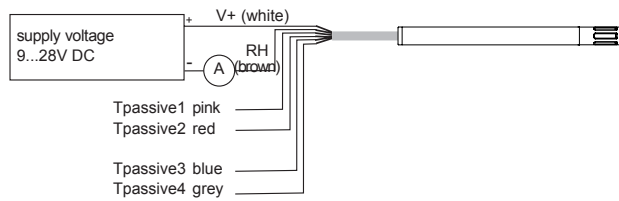
Connection Diagram

JTH-061-x6 (current output):

with active humidity output:



with active humidity output and passive T-sensor:



Ordering Guide

JTH-061 (Current Output):

MODEL	OUTPUT	T-SENSOR (passive only)	FILTER	COATING	CABLE LENGTH
humidity+temperature passive (FP)	4 - 20mA (6)	Pt 100 DIN A (A)	membrane filter (1)	without coating (no code) with coating (HC01)	0.5m (1.6ft) (co code) 3m (9.8ft) (K300) 10m (K1000)
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