QUICK GUIDE

EE061 - Humidity / Temperature Probe with Current Output

Scope of Supply

- EE061 according ordering guide
- Quick guide

Caution

For accurate measurement of the relative humidity (RH) and temperature (T) it is essential that the temperature of the probe and mainly of the sensing head is the same as the temperature of the air to measure. Avoid mounting the EE061 probe in a way which creates temperature gradients along the probe.

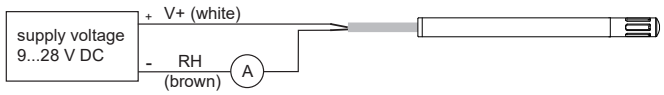
- The device and mainly the sensing head shall not be exposed to extreme mechanical stress.
- The device must be operated with the filter cap on at all times. Do not touch the RH and T sensing elements inside the sensing head.
- While replacing the filter cap (because of pollution for instance) against an original E+E spare parts, please take very good care to not touch the RH sensing element.
- During site cleaning or sterilization process the sensing head can be protected with the optional protection cap for 12 mm probe (HA010783 see datasheet “Accessories”).

Spare Parts (see datasheet „Accessories“)

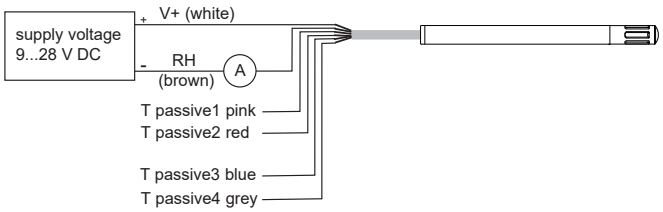
Membrane filter cap	HA010118
Metal grid filter cap	HA010119

Connection Diagram

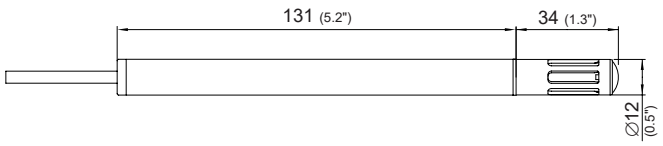
EE061-M2: RH only



EE061-M6: RH and T passive



Dimensions mm (inch)



Maintenance

Use the probe in dusty, polluted environment might arise the need for cleaning the sensing element. In such a case please see “Cleaning Instructions” at www.epluse.com/EE061

A polluted filter cap causes longer response time of the probe. The filter cap shall be replaced as needed with an E+E original one (see “Spare parts”). Do not touch or rub the sensing element while replacing the filter cap.

Technical Data

Measurands

Relative humidity

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

Temperature (passive)

Output	resistive, 4 wire
Choice of T-sensor	according to ordering guide

General

Supply voltage	9 V DC - 28 V DC
Current consumption	typ. 1.5 mA
Electrical connection	cable PVC 0.5 m (1.6 ft) / 3 m (9.8 ft) / 10 m (32.8 ft), with wire ferrules model M2: 2 x 0.50 mm² model M6: 8 x 0.14 mm²
Enclosure material	Polycarbonate
Protection class	IP65
Electromagnetic compatibility	EN61326-1 EN61326-2-3
Working temperature range	-40...+60 °C (-40...140 °F)
Storage temperature range	-40...+60 °C (-40...140 °F)

1) Traceable to intern. standards, administrated by NIST, PTB, BEV,...
The accuracy statement includes the uncertainty of the factory calibration with an enhancement factor k=2 (2-times standard deviation).
The accuracy was calculated in accordance with EA-4/02 and with regard to GUM (Guide to the Expression of Uncertainty in Measurement).

USA
FCC notice:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the installation manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which thereceiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CANADIAN
ICES-003 Issue 5:
CAN ICES-3 B / NMB-3 B

INFORMATION +43 7235 605 0 / info@epluse.com

Langwiesen 7 • A-4209 Engerwitzdorf
Tel: +43 7235 605-0 • Fax: +43 7235 605-8
info@epluse.com • www.epluse.com

LG Linz Fn 165761 t • UID-Nr. ATU44043101
Place of Jurisdiction: A-4020 Linz • DVR0962759