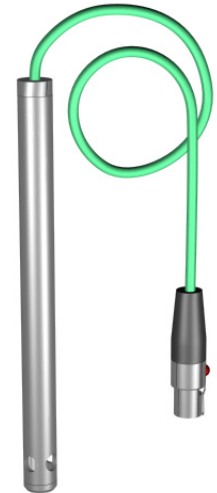


## RH/T Probe for Handheld Meters RHA

- ◆ Low cost
- ◆ Voltage output signal
- ◆ Built-in temperature sensor available
- ◆ May be used with H5800 handheld meter or separately
- ◆ Compact and convenient in use
- ◆ Fast connection

Using thin-film sensor, whose capacitance varies proportionally to medium relative humidity, RHA measures relative humidity of air and non-aggressive gases at normal ambient pressure and converts it into standard voltage signal. Based on the RHT transducer, but with its electronics fitted into a cylindrical body, this probe is especially suitable for fast measurements in combination with handheld humidity measuring devices that feature programmable or scalable input. Furthermore, a platinum temperature sensor may be built in the probe for simultaneous medium temperature measurement. Through its flexible cable with miniature connector, the RHA probe can be easily connected to a H5800 meter to form a lightweight multifunctional and widely applicable device for handheld relative humidity measurement.



### Technical specifications

#### Input

<b>Humidity</b>	capacitive sensor, 0...100 %RH
<b>Temperature (option)</b>	Pt100 or Pt1000 (w=1.385) <sup>(1)</sup> , -10...50 °C
<b>- accuracy</b>	class 'B'

#### Output

<b>Output voltage</b>	min. 0...max. 100 mV DC
<b>Linearity proportional to</b>	measured value

#### Accuracy

<b>Measurement error</b>	2.5% from span
<b>Non-linearity</b>	within measurement error
<b>Temperature drift</b>	0.1% from span for 1 °C

<sup>(1)</sup> H5800 requires Pt1000!

#### Power supply

<b>Supply voltage</b>	DC from the handheld meter
<b>Admissible variations</b>	20 mVp-p at 50 Hz

#### Operating conditions

<b>Ambient temperature</b>	-10...50 °C
<b>Ambient humidity</b>	0...85 %RH, non-condensing

#### Design and materials

<b>Case material</b>	stainless steel
<b>Sintered filter (option)</b>	stainless steel, 75 µm
<b>Wiring</b>	1...5 m PVC or silicone cable w/ 4-pin M8 connector type 'C3'
<b>Dimensions</b>	∅16x min. 120 mm (w/o cable and filter)
<b>Weight</b>	30 g (w/o cable and filter)
<b>Protection class</b>	IP54 (except sensor)

### Ordering code RHA - G8 - #1.#2

Code	Feature or option	Code values
<b>G8</b>	Cable length 'k' [m] and type	<b>1PV...5PV</b> - PVC, <b>1SL...5SL</b> - silicone
<b>#1</b>	Built-in temperature sensor <sup>(1)</sup>	<b>X</b> - none, <b>D</b> - Pt100, <b>G</b> - Pt1000
<b>#2</b>	Sintered filter	<b>X</b> - none, <b>S</b> - sintered filter mounted