

RH Probe for Handheld Meters RHA

- ◆ Low cost
- ◆ Voltage output signal
- ◆ May be used with H7000 hand held meter or separately
- ◆ May accommodate a temperature sensor
- ◆ Fast socket connection
- ◆ Compact and convenient in use

RH

The RHA series probes by COMECO are used to convert **relative humidity** of air or non-aggressive gases at normal ambient pressure into standard **voltage signal**. They are based on the RHT transducers, but in this case the **whole electronics** is fitted into probe cylindrical body. The RHA probes are especially suitable for fast measurements in combination with the COMECO's hand held humidity meters type H7000, but may be used with other humidity measurement devices that feature a programmable or scalable input. These probes utilize thin film or solid state sensing elements whose capacitance varies in proportion with medium relative humidity. A Pt100 temperature sensor may be built in for measurement of the medium temperature. RHA probes are connected to the hand held meter by means of a flexible cable and a miniature connector. Combined with the H7000 meters, the RHA probes make a multifunctional device for hand held relative humidity measurement of wide application.



Technical specifications

Input

RH input range	0 to 100 %RH
Temperature input (optional)	Pt100: -10 to +50 °C

Output

Output type	Voltage
Output range	min. 0 to max. 100 mV DC
Linearity	to measured value

Accuracy

Measurement error for RH	2.5 % from span
Non-linearity	within measurement error
Temperature drift	0.1 % from span for 1 °C
Measurement error for T	0.5 % from span

Power supply

Voltage	from the hand held meter: 5 VDC
Maximum allowed variations	20 mV p-p @ 50Hz

Operating conditions

Operating temperature	-10 to +50 °C
Storage temperature	-20 to max. +80 °C
Operating humidity	connector: 0 to 85 %RH

Design and materials

Case material	Stainless steel
Wiring	Cable 1 m with socket
Dimensions	Ø12 x 120 mm (without cable)
Weight	30 g (without cable)
Protection class	IP-65 (except the sensor)

Ordering code



RHA - #1

Code	Feature or option	Code values
#1	Medium temperature sensor	X - none, D - Pt100