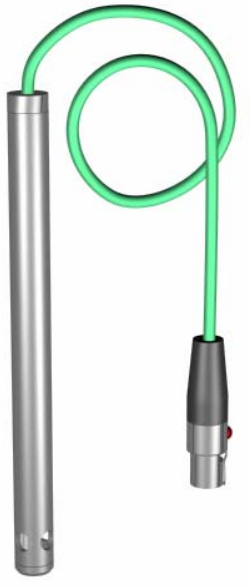
# Handheld Meters RHA

- **Low cost**
- **Voltage output signal**
- **May be used with H5800 handheld meter or separately**
- **May accommodate a temperature sensor**
- **Fast socket connection**
- **Compact and convenient in use**



The **RHA** 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 platinum 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 turn into multifunctional devices for hand-held relative humidity measurement of wide application.

RH

## Technical specifications

| Input | |
|---|---|
| ***RH input range*** | 0 to 100 %RH |
| ***Temperature input (option)*** | Pt100 (Pt1000): -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*** | DC - from the hand held meter |
| ***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*** | ∅12 x 120 mm (without cable) |
| ***Weight*** | 30 g (without cable) |
| ***Protection class*** | IP54 (except the sensor) |

## Ordering code ➔ RHA - #1

| Code | Feature or option | Code values |
|---|---|---|
| **#1** | Medium temperature sensor | **X** - none, **D** - Pt100, **G** - Pt1000 |