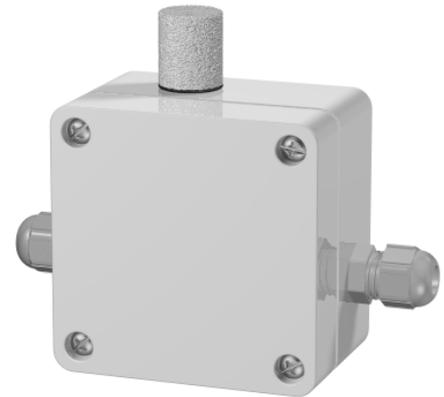


## RH/T Probe with RS485 Interface RHW

- ◆ Low cost
- ◆ RH and temperature conversion
- ◆ RS485 isolated interface
- ◆ Up to 32 probes in a network
- ◆ Optional stainless steel sintered filter
- ◆ IP65 protection

COMECO's HVAC humidity probe RHW has the same features as the RHV model but with RS485 output and is designed specially for multi-point measurement and data acquisition in a network with up to 32 devices. Using a thin-film sensor, whose capacitance varies proportionally to medium relative humidity, and a thin-film temperature sensor, the probe measures relative humidity and temperature of air and non-aggressive gases at atmospheric pressure, and transforms it into information sent via standard RS485 interface with ACSII protocol. RHW is equipped with a convenient plastic enclosure with IP65 and two PG7 cable glands for easy and fast network building. This model can be optionally equipped with a stainless steel sintered filter for sensor protection. Thanks to its robust design, network communication potential, and low price, the RHW transmitter can be widely used in HVAC building automation and warehouse control systems.



### Technical specifications

#### Input

<b>Humidity</b>	capacitive sensor, 0...100 %RH
<b>Temperature</b>	Pt100 (w=1.385), -20...60 °C
<b>Isolation from output / supply</b>	1500 VAC for 1 min

#### Output / Interface

<b>Interface type</b>	RS485
<b>Function</b>	configuration and networking
<b>Network devices</b>	up to 32
<b>Format</b>	8 (data) + 1 (stop), even parity
<b>Baud rate</b>	1200 / 2400 / 4800 / 9600 bps
<b>Isolation from input</b>	1500 VAC for 1 min

#### Power supply

<b>Supply voltage</b>	5 VDC ± 5%
<b>Admissible variations</b>	0.2 Vp-p at 50 Hz
<b>Consumption</b>	max. 100 mA

<sup>(1)</sup> Can be mounted on a wall through 2 holes ø3.8 mm in the enclosure back wall

#### Accuracy

<b>RH measurement error</b>	≤ 2.0% from span
<b>Temperature measurement error</b>	≤ 0.4% from span
<b>Temperature drift for RH</b>	0.05% from span for 1 °C
<b>Temperature drift for temperature</b>	0.01% from span for 1 °C

#### Operating conditions

<b>Ambient temperature</b>	-20...60 °C
<b>Ambient humidity</b>	0...95 %RH, non-condensing

#### Design and materials

<b>Case material</b>	plastic
<b>Sensor protection</b>	plastic cap with stainless steel mesh
<b>Sintered filter (option)</b>	stainless steel, 75 µm free <sup>(1)</sup>
<b>Mounting</b>	
<b>Wiring</b>	screw terminals inside housing
<b>Dimensions</b>	108x83x40 mm
<b>Weight</b>	max. 150 g
<b>Protection class</b>	IP65

### Ordering code RHW - #1

Code	Feature or option	Code values
#1	Sintered filter	<b>X</b> - none, <b>S</b> - sintered filter mounted

COMECO reserves the right of changing specifications without prior notice!