

- ♦ Very low cost♦ Voltage output signal
- A temperature sensor may be built in optionally
- Fast mounting variant

RHS series transmitters by COMECO measure relative humidity of air and non-aggressive gases at atmospheric pressure and transform it into standard voltage output signal. These transducers use polymer-folio or thin film sensors, whose capacitance varies proportionally to medium relative humidity. An additional platinum temperature sensor may be built in for measurement of both medium relative humidity and temperature. RHS transmitters are available in three modifications with different cases, mounting and wiring:

- cable electrical output
- terminals in a protective head type "B"
- DIN 5 pin connector

The first two variants provide **high environment protection** and the third one allows **fast mounting**. Due to their simple and straightforward design and their **low price** RHS transmitters are widely used in air conditioning and food industry.



Technical specifications

Input	
RH sensor (folio type)	10 to 90 %RH
Pt100/500/1000 (w=1.385)	0 to +60 °C <i>(option)</i>
Output	
Output type	Voltage
Output range	0 to 1 VDC
Linearity	to measured value
Accuracy	
Measurement error for RH	3.0 % from span
Non-linearity	within measurement error
Temperature drift	0.1 % from span for 1 °C
Measurement error for T	0.5 % from span

(1) Also fre	ee (hanging) mounting	(without i	ilange).
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Voltage Admissible variations	12 VDC 1 Vp-p @ 50Hz
Operating conditions	
Medium temperature	0 to 50 °C
(for the sensor near the flange)	
Ambient temperature	-10 to 40 °C
Design and materials	

Casing material	Aluminum
Mounting	In hole (1)
Other specifications	See tables below

<u></u> Ø21:	215	8
		269
70	230x75x60	Ø20x205
ngth 1m (3) Screw-ty	pe terminals inside "B" head	5-pin connector
9	220 g	120 g
i	IP 56	IP 40
RH	0 to 98 % RH	0 to 70 % RH
	70	70 230x75x60 ngth 1m (3) Screw-type terminals inside "B" head 220 g IP 56

⁽²⁾ Without cable and flange, but with connector and head.

Ordering code



RHS* - G12 - #1#2

Power supply

Code	Feature or option	Code values
*	Variant (Model)	A - with cable, B - with head, C - with connector
G12	Mounting	X - for free mounting (hanging), A - for mounting in hole (additional flange)
#1	Option - thin film sensor	X - none, T - thin film sensor
#2	Medium temperature sensor	X - none, D - Pt100, F - Pt500, G - Pt1000

⁽³⁾ Other cable lengths are available on request.