

Specifications

Variant	<input type="checkbox"/> 'A', <input type="checkbox"/> 'B', <input type="checkbox"/> 'D'
RH Sensor	thin-film RH sensor; 0...100 %RH
Built-in Temperature Sensor / Transmitter	<input type="checkbox"/> Pt100, <input type="checkbox"/> Pt500, <input type="checkbox"/> Pt1000, <input type="checkbox"/> 2-wire transmitter;
RH Output Signal	range: °C 4...20 mA, 2-wire
Temperature Output Signal	4...20 mA, 2-wire
ZERO and SPAN Adjustment	± 20% (for temperature transmitter only)
Power Supply	8...36 VDC ± 1 Vp-p at 50 Hz
Maximum Line Load	800 Ω at 24V/20mA
RH Measurement Error	< ± 2.5% RH
Temperature Measurement Error	< ± 0.5% from span ± 0.5 °C
Stem Material	<input type="checkbox"/> POM (max. 60 °C), <input type="checkbox"/> PVC (max. 70 °C), <input type="checkbox"/> stainless steel (max. 90 °C) mm
Stem Length (variants 'B' and 'D')	<input type="checkbox"/> none, <input type="checkbox"/> flange
Process Connection	-10...60 °C / 0...98% RH, non-condensing
Ambient Temperature / Humidity	IP65
Protection Class	<input type="checkbox"/> SS mesh, <input type="checkbox"/> SS sintered filter
Filter Cap	

v13.05.10



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RELATIVE-HUMIDITY TRANSMITTER

RHT

OPERATION MANUAL



Warranty and Support

.....
serial number

.....
manufacturing date

QC check mark(passed)
(stamp)

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Warranty

COMEKO warrants this product to be free from defects in materials and workmanship for 1 year. If your unit is found to be defective within that time, we will promptly repair or replace it. This warranty does not cover accidental damage, wear or tear, or consequential or incidental loss. This warranty does not cover any defects caused by wrong transportation, storage, installation, or operating (see 'Specifications').

Technical support

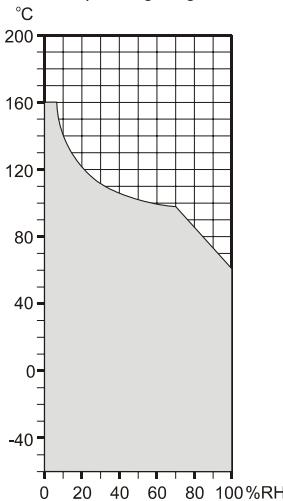
In the unlikely event that you encounter a problem with your COMEKO device, please call your local dealer or contact directly our support team.

QD-8.2.4-WC

Please read this Operation Manual before mounting and operating!
Save the Manual for future references!

Overview

Operating range



RHT converts the relative humidity (RH) of air and non-aggressive gases into a standard 4...20 mA 2-wire current signal. An additional temperature sensor or transmitter with a 2-wire 4...20 mA output may also be built in.

Device variants

- ◆ Variant 'A' is designed for mounting on a wall and is intended for RH (and temperature) control in the same environment as that the body of the transmitter (the electronic block) is placed in.
- ◆ Variants 'B' and 'D' are designed for mounting in a hole by the means of a flange and are aimed to control RH (and temperature) in an environment, separated from the electronic block through the wall of the chamber in which only the part of the body containing the sensitive element is placed.

Mounting and Wiring

Mounting variant 'A'

- ◆ Unscrew the 4 screws and take off the electronic block cover.
- ◆ Attach the body to a wall by 2 screws via the openings on the enclosure base.
- ◆ Put the cover back and tighten up the screws.

Mounting variants 'B' and 'D'

- ◆ Prepare 2 or 4 holes on the chamber wall according to the flange dimensions.
- ◆ Affix the flange to the wall via proper screws.
- ◆ Place the RHT's cylindrical part in the flange opening and regulate the penetration in the chamber, leaving a minimum of 20 mm space between the flange and the block.
- ◆ Tighten the locking screw of the flange.

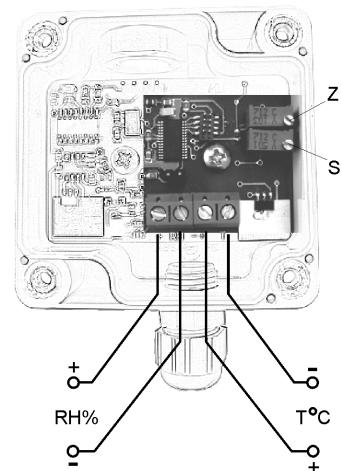
Calibrating RH

RH transmitter is factory calibrated and does not need any user calibration.

Calibrating Temperature

If necessary, use 'Z' and 'S' trimmers to calibrate ZERO and SPAN of the temperature transmitter.

Wiring



- ◆ Take the cover of the electronic block off and run a cable with considered outer diameter through the cable gland.
- ◆ Observing the polarity, connect the wires as shown on the left diagram.
- ◆ Put the cover back and tighten up the screws.