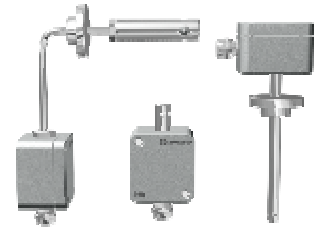
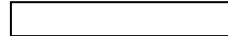


2-wire Relative Humidity Transmitters RHT

- ◆ Excellent price-to-performance ratio
- ◆ Temperature compensation system
- ◆ Built-in two-wire temperature transmitter
- ◆ Protection at sensor break
- ◆ High protection class - IP66



RH

Technical specifications

Input

RH sensor thin film	0 to 100 %RH
RH sensor solid state	5 to 95 %RH
Pt100 (w=1.385) (optional)	-20 to +120 °C
Pt500 (w=1.385) (optional)	-20 to +120 °C
Pt1000 (w=1.385) (optional)	-20 to +120 °C
Adjustment of RH - zero (offset)	by trimmer ±20% from span
Adjustment of RH - range	by trimmer ±20% from span
Adjustment of T - zero (offset)	by trimmer ±20% from span

Output

RH current output	Two-wire: 4 to 20 mA
Output range corresponding	0 to 100 %RH
T current output (option)	Two-wire: 4 to 20 mA
Input range corresponding	min. -20 to max. +120 °C ⁽¹⁾
Linearity	to measured value
Output current limit	max. 23 mA

Accuracy

Measurement error for RH	< 2.5 %
Measurement error for T	< 0.5 %
Non-linearity	within measurement error
Temperature drift (per °C)	RH: 0.1%; T: 0.01%

Power supply

Voltage	8 to 32 VDC
Admissible variations	1 Vp-p @ 50Hz
Max. line load	700Ω @24V/20mA

Operating conditions

Operating temperature	From min. -10 to max. 75 °C
Operating humidity	0 to 98 %RH

Design and materials

Case material	Stainless Steel and aluminum
Wiring	With hidden screw terminals
Protection (except sensor)	IP66

⁽¹⁾ Exact correspondence is specified by client order within the stated limits

Model	A	B1	B2	D
Specification				
Sensitive element	Thin film	Thin film	Solid state	Solid state
Medium temperature	-10 to 60 °C	-10 to 60 °C	-10 to 90 °C	-20 to 120 °C
Ambient temperature	-10 to 60 °C	-10 to 60 °C		-10 to 60 °C
Weight (without cable)	150 g	170 g		220 g
Mounting	on wall	in hole (or free mounting)		in hole

Ordering code RHT* - #1

Base model

RHTA - X
RHTB1 - X
RHTB2 - X
RHTD - X

Code	Feature or option	Code values
*	Variant	A - wall mounting, B1 - hole mounting, B2 - increased temperature, D - high-temperature two-part model
#1	Temperature option	X - none D - Pt100, F - Pt500, G - Pt1000 TT - two-wire transmitter