

Pendulum humidity transmitter 4-20 mA

Article number: 801310 1022

Our pendulum humidity transmitter with 4-20 mA current output is equipped with a two-meter cable and a robust plastic sintered filter. The precise measurement of the relative humidity is carried out by a digital humidity sensor. The transmitter is suitable for use in non-aggressive, dust-free environments, e.g. in refrigeration, air conditioning and clean room technology.



Supply and output	
Output	4 - 20 mA
Power consumption	< 1,1 VA / 24 V DC
Voltage supply	15 - 36 V DC
Connection type	2-Wire
Load	$R_a \text{ (Ohm)} = (U_b - 14 \text{ V}) / 0,03 \text{ A}$




Humidity	
Measuring element humidity	Digital humidity sensor (low hysteresis, high long-term stability)
Measuring range humidity	0 % RH to 100 % RH
Output humidity	4-20 mA
Accuracy humidity	$\pm 2.0 \%$ (20 % RH to 80 % RH) at +25 °C, otherwise $\pm 3.0 \%$
Long-term stability	$\pm 1 \%$ / year

Ambient conditions	
Storage temperature	-25 °C to +50 °C
Operating temperature	-5 °C to +55 °C
Permissible humidity	0 % RH to 95 % RH (without condensation)

Certifications / Standards	
Protection class	III (nach EN 60 730)
Protection type	IP 65 according to EN 60 529
Standards	CE conformity electromagnetic compatibility according to EN 61326 according to EMC Directive 2014/ 30/ EU

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Testo Sensor GmbH

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 D-79853 Lenzkirch  Please find our whole temperature probe and transmitter portfolio in our webshop at: www.testo-sensor.shop

Pendulum		Sensor protection	
		Plastic sintered filter	replaceable
Material	Stainless steel 1.4301 SUS 304	Material	Plastic
Ø (mm)	16	Ø (mm)	16
Length (mm)	55	Length (mm)	32

Cable		Assignment % RH	
Cable material	PVC, LiYY		brown = +UB 24V DC
Cable length (m)	1,5		white = output humidity 4-20mA
Color	White	Circuit diagrams and assignment (Please also read the operating instructions before connecting the transmitter)	
Cross section (mm ²)	2 x 0,25	Humidity table in OI	

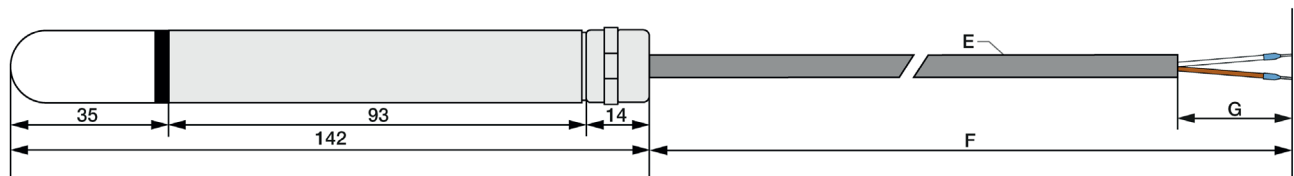
Important assembly instructions

For an accurate measurement of the humidity in the room, it is important to observe the air circulation so that the measurement is not distorted. The transmitter should therefore be installed in a place where air movement is not obstructed by objects or obstacles. You should also avoid uncontrolled air currents (draughts) and direct sunlight, for example by installing it near doors, windows or other heat sources.

The device should only be used in pollutant-free, non-condensing air (< 95 % RH). The sintered filter protects the humidity sensor in outdoor and duct probes from dust, which can falsify the measurement result. Maintenance in the event of contamination is therefore important. Avoid touching the humidity element to prevent incorrect measurements.

Delivery and Packing	
Delivery	Transmitter, Operating instructions
Packing	individually packed in cardboard box

Technical drawing All dimensions in mm



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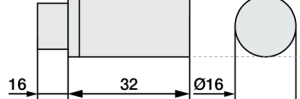
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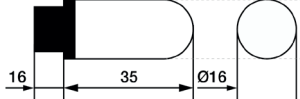
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Accessoires: Sintered filter

Metal sintered filter			
Article image	Your order code		Technical drawing
	Article number	809990 0005	
	Material	Stainless steel 1.4404 316L	
	Length (mm)	32	
	Ø outside (mm)	16	

Plastic sintered filter			
Article image	Your order code		Technical drawing
	Article number	809990 0006	
	Material	Plastic	
	Length (mm)	35	
	Ø outside (mm)	16	

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