

Pendulum humidity transmitter with display 0-10 V

Article number: 801311 2023

Our pendulum humidity transmitter with 0-10 V voltage output and display has a robust plastic housing with quick-release screws. The device measures both humidity and optionally temperature, with four switchable measuring ranges available. The relative humidity is recorded by a digital humidity sensor, which is housed in a plastic sintered filter and attached to the housing with a two-meter cable. The two-line display shows either the humidity or the temperature in large format.

Supply and output		
Output	0 - 10 V	
Power consumption	< 1,1 VA / 24 V DC; < 2,2 VA / 24 V AC	
Voltage supply	24 V AC (± 20 %) 15 - 36 V DC	
Connection type	See connection diagrams	

General information	
Load resistance	RI > 5 kOhm
Sensors	Digital humidity sensor, optionally with integrated temperature sensor

Humidity	
Measuring element humidity	Digital humidity sensor (low hysteresis, high long-term stability)
Measuring range humidity	0 % RH to 100 % RH
Output humidity	0-10 V
Accuracy humidity	± 2.0 % (20 % RH to 80 % RH) at +25 °C, otherwise ± 3.0 %
Long-term stability	± 1 % / year

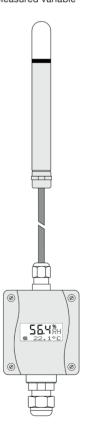
Temperature			
Measuring element Temperature Pt1000, DIN EN 60751, Class B			
Measuring range temperature	multi-range switching with 4 switchable measuring ranges		
Output temperature	0 - 10 V		
Accuracy temperature	typically ± 0.2 K at +25 °C		

Ambient conditions		
Storage temperature	-5 °C to +60 °C	
Operating temperature	-5 °C to +60 °C	
Permissible air humidity	0 % RH to 95 % RH (without condensation)	

Certifications / Standards		
Protection class	III (according to 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	



Configurable options
M - Measured variable

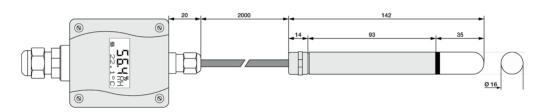


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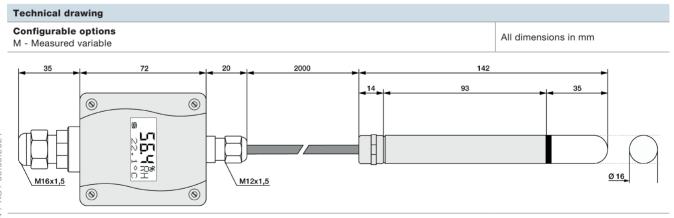
Housing		Drilling template	
Material	Plastic, UV-resistant Material polyamide, 30 % glass bead reinforced		
Dimensions (L/W/H) (mm)	Aluminum die casting	39 (0 4.3)	
Color	Traffic white (similar to RAL9016)		
Screw connection	Cable gland, Plastic, M16x1,5, Strain relief, replaceable, max. 10,4 mm Ø Inner	49	
Electrical connection	0.14 - 1.5 mm ² , via screw terminals on circuit board		
Closure	with quick release screws		
Display			
Two lines, lighted, For display of actual temperature and self-diagnostics			
Cut-out (B/H) (mm) ca. 36 x 15			

Cable		Pendulum		Sensor protection: Plastic sintered filter	
Cable material	PVC, LiYY	Material	Stainless steel 1.4301 SUS 304	Material	Plastic
Cable length (m)	2	Ø (mm)	16	Length (mm)	35
Color	White	Length (mm)	55	Ø outside (mm)	16
Cross section (mm²)	6 x 0,14			Plastic sintered filter	replaceable



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

Your order code		M - Measured variable		
Article number Measured variable		code	Measured variable	
801311 2023		M1	% RH (Relative humidity)	
001311 2023		M2	°C + % RH (Temperature and relative humidity)	



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

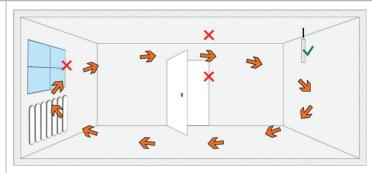
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Important assembly instructions

For an accurate measurement of the humidity and temperature in the room, it is important to take the temperature dynamics into account. Air circulation should not distort the measurement. For this reason, the transmitter should be installed away from objects or obstacles that shield air movements. Please also avoid uncontrolled air currents (draughts) and uncontrolled exposure to sunlight by installing near doors or windows (or other heat sources).

When connecting several probes to a common 24 V AC power supply, pay attention to the polarity to avoid short circuits. Please note that the voltage outputs are short-circuit-proof, but an overvoltage or the application of the power supply to the voltage output can destroy the device.



Circuit diagrams and assignment (Please also read the operating instructions before connecting the transmitter) Default Set scaling via DIP switch Assignment % RH Wiring diagram configuration Werkseinstellungen: Skalierung: 0 .. 50 °C 1 = +UB 24V DC DIP-Schalter Messbereichsumschaltung_ Messbereichsumschaltung via DIP-Schalter DIP switches Measuring range changeover 2 = Output Humidity 0-10 V Changing measuring range via DIP switches 3 = free 4 = UB GND OFF ON Scaling Range DIP 2 ON Assignment °C + % RH on -35 .. +75°C on 1 2 1 = +UB 24V DC off off -35 .. +35°C off on 0 .. +50°C 2 = Output Humidity 0-10 V off 0 .. +80°C on 3 = Output temperature 0-10 V \(\bigcirc 4 = UB GND (for display lighting) Temperature table in OI

Please observe the operating instructions for correct connection

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Accessoires: Monuting flange

stic flange MF-16	6-K	
Article number	809500 7000	58 →
Material	Plastic	20 →
Fastening	2 x Ø 5,2 mm drill holes	
Hole (mm)	16,2	Ø 16,2 Ø 5,2 ———————————————————————————————————

Accessoires: Sintered filter

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

Plastic sintered filter			
Article image	Your order code		Technical drawing
	Article number	809990 0006	
	Material	Plastic	
	Length (mm)	35	16 35 Ø16
	Ø outside (mm)	16	33 > 210

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