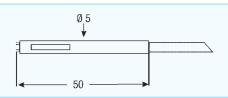
HUMIDITY

10/2008 We reserve the right to make technical changes

Capacitive Humidity Sensor Type FHA646R



- Compact sensor with extremely small dimensions.
- Particularly suitable for measurements between PCBs, within housings, in walls, ceilings, and insulations used in structural engineering and protection of historic monuments.
- Sensor usable in the range -30 ... 100°C/5 ... 98% r.H.

Accessories:

Extension cable, 2m long Extension cable, 4m long Order No. ZA9060VK2 Order No. ZA9060VK4

Types: Length 50mm

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Order No. FHA646R
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High-temperature moisture transmitter Type MT8636HR6



- High-temperature cable sensor with transmitter, suitable for fixed installation.
- Build in socket for supply and analogue output
- Analog output range, scalable to -40 to +180 °C / 0 to 100 % r.H.
- Analog output type, 0 to 10 V standard (0 to 5 V or 0/4 to 20 mA also available from the factory).
- Pressure-sealed, up to 15 bar, available on request.

Options:

High-temp. sensor cable, 5 meters	Order no. : OT8636HR6L05
High-temp. sensor cable, 10 meters	Order no. : OT8636HR6L10
High-temp. sensor cable, 20 meters	Order no. : OT8636HR6L20

Types (including manufacturer's test certificate)

High-temperature moisture transmitter with sensor cable, 2 m long, incl. output connector **Order no. : MT8636HR6**

ALMEMO[®] connector cable, 2 meters long, PVC including ALMEMO® connector and mains adapter ZB3090NA, 12 V / 200 mA Order no. : ZA8636HR6AK

Technical Data:		
Operative range :	−30 to +100 °C / 5 to 98 % r.H.	
Humidity Measuring Circuit		
Measuring range:	0 to 100 % r.H.	
Sensor:	capacitive	
Accuracy:	±2% r.H. in the range < 90% RH at nominal temperature	
Reproducibility:	< 1% r.H. at nominal temperature	
Nominal temperature:	25°C ±3°C	
Response time T ₆₃ :	approx. 10s at 1 m/s	
Temperature Measurin	g Circuit	
Sensor:	NTC type N	
Accuracy:	-20 0°C: ±0.4°C 0 70°C: ±0.1°C 70 100°C: ±0.6°C	
Reproducibility:	0.1°C	
Mechanical Construction	DN	
Sensor tube:	nickel plated, 50mm long, 5mm Ø	
Protective cap:	none	
Cable:	2m long, ALMEMO [®] connector	

Technical data :

Operative range :

Sensor, including sensor	cable : -40 to +180 °C
Electronics housing :	-40 to +60 °C

Humidity measuring circuit		
Measuring range :	0 to 100 % r.H.	
Sensor :	capacitive	
Accuracy :	± 2 % r.H. in range 0 to 90 % r.H. ± 3 % r.H. in range 0 to 100 % r.H. each at nominal temperature	
Nominal temperature :	+23 °C ± 3 K	
Response time :	<10 seconds without filter	
Temperature measuring circuit		
Sensor:	Pt1000	
Accuracy :	DIN EN 60751, class A	
Electrical data		
Supply voltage :	8 to 48 V DC / 12 to 35 V AC	
Power consumption at 24 V	typical 40 mA / 1 W (V output) typical 80 mA (mA output)	
Mechanical data		
Sensor :	stainless steel, L=238mm, d=12mm	
Protective cap :	sintered stainless steel filter (see page 09.06)	
Sensor cable :	2 meters long, optional : 5/10/20 m	
Electronics housing :	plastic PC, 135 x 90 x 87 mm	

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