



Humidity Temperature Pressure

- 34 -

Model Brief
Description

Order No.

Technical Data

Electrical Transmitter



Hygro-Thermo Transmitter capacitive

Instrument designed for measurement of temperature and air humidity. The data are output as electrical analogue signals. The transmitters consist of a capacitive humidity element and a Pt 100 resistance thermometer.

Model for ducts

The measuring elements are situated at the end of the immersion stem which protrudes from the back.

Room Model

The measuring elements are situated in a lateral protective cover.

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Model	Model for ducts Room model
Electr. output	2 x 0-20 mA/0-10 V 2 x 4-20 mA/0-10 V 2 x 0 ... 10 V
Meas.range Hum.	0 ... 100% rel. h.
Temp.	0 ... + 60 °C
Accuracy Hum.	<± 3% rel. h.
Temp.	± 0,3 K (at 0 °C)
Time constant	5 s in streamless air
Characteristic	linear
Operating voltage	15 ... 24 V AC 15 ... 36 V DC
Diameter of stem	25 mm
Length of stem	250 mm
Connecting	screw clamps
Dimension	130 x 75 x 55 mm
Weight	0,2 kg



Hygro-Thermo Transmitter

Instrument designed for measurement of temperature and air humidity. The data are output as electrical analogue signals. Humidity value is displayed additionally. The transmitters consist of a hair humidity element and a Pt 100 resistance thermometer. Sturdy construction, essential external parts are made of stainless steel. For mounting out-of-doors we recommend the use of the weather- and thermal radiation shield Order-no. 1.1025.51.000. (see p. 36)

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Electr. output	200 Ω lin./ Pt 100 200 Ω lin./ Pt 100	Electr. connection with Lemos-a-plug with 3 m cable
Measuring range	10 ... 100% rel. h.	
Accuracy	± 3% rel. h. / ± 0,1 K	
Graduation	1% rel. h. not linear	
Scale length	94 mm	
Hum. meas. elem.	H	
Temp. meas. elem.	Pt 100, acc. to IEC 751 1/3 class B	
Diameter of stem.	22 mm	
Length of stem	250 mm	
Protection	IP 65, display case	
Total length	350 mm	
Weight	0,7 kg resp. 0,9 kg	



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Hygro-Thermo Transmitter compact

Instrument designed for measurement of temperature and air humidity. The data are output as electrical analogue signals. The transmitters consist of a capacitive humidity element and a Pt 100 resistance thermometer. For mounting out-of-doors we recommend the use of the weather- and thermal radiation shield Order-No.. 1.1025.55.xxx. (see page 36)

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Electr. output	Humidity 0 ... 1 V 4 ... 20 mA 0 ... 10 V	Temperature Pt 100 (± 0,1 K) 4 ... 20 mA (± 0,3 K) 0 ... 10 V (± 0,2 K)
Measuring range	0 ... 100% rel. h. - 30 ... + 70 °C	
Accuracy	± 2% rel. F.	
Temp. Meas. elem.	Pt 100, acc. to IEC 751 1/3 class B	
Operating voltage	9 - 30 V DC (...000) 12 - 30 V DC (...241) 24 V DC (...161)	
Protection	IP 30 for sensor IP 65 for electronic	
Cable	5 m long	
Dimension	Ø 20 x 115 mm	
Weight	0,45 kg	

Protective basket with gauze

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Is put on the sensor and protects the measuring element from coarse dust.

Protective basket made of metal

1.1005.54.902

Is put on the sensor and protects the measuring element from high wind speeds (> 5 m/s) and coarse dust. Necessary for use in exposed areas (e.g. sea climate).