

TEMPERATURE MEASURING TECHNOLOGY

Hygro-ThermoTransmitter

Part number: 1.1005.50.xxx

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 outdoor installation we recommend the use of the weather- and thermal radiation shield order no. 1.1025.51.000.



Specification

Part number: 1.1005.50.xxx

Temperature

Meas. element	Pt 100 acc. to DIN IEC 60751 1/3 class B
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Rel. Humidity

Measuring range	10 ... 100 % rel. h.
Graduation	1 % rel. h.
Accuracy	± 3% rel. h. (@ 20 ... 100 % rel. h. and room temperature)
Meas. element	human hairs

General

Ambient temp.	-35 ... +70 °C
Scale length	94 mm (90 °)
Length	350 mm
Stem	22 mm
Stem length	250 mm
Protection	IP 65, case
Weight	0.9 kg



Versions

As per 1.1005.50.xxx, but:

Product number 1.1005.50.015	
Rel. Humidity	
Electr. output	0 ... 200 ê
General	
Electr. connection	Lemoso connector

Product number 1.1005.50.515	
Rel. Humidity	
Electr. output	0 ... 200 ê
General	
Electr. connection	3 m cable

Accessories

Product	Product name	Brief description	
	Wind Protection 1.0509.85.006	Gauze- and wind protection protects the humidity measuring element from coarse dust (> 0.32 mm) and error measurements in case of wind velocities > 3 m/s. Suitable for hygro transmitter 1.1000.50.xxx.	
		General	
		Length	200 mm
		Diameter	24 mm
		Mesh aperture	0,32 mm
		Material	Niro, Brass
		Weight	0.05 kg
	Weather and Thermal Radiation Shield 1.1025.51.000	Protective covering for the hygro-transmitter 1.1000.50.xxx for outdoor installation. Helps to prevent atmospheric influences and radiation errors from influencing the measured results.	
		General	
		Mounting	pin Ø 22 x 27 mm
		Material	Al, galvanised and varnished
		Dimension	Ø 170 x 450 mm
		Weight	2.2 kg