

# 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
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**General**

Electr. connection	Lemos connector
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**Product number 1.1005.50.515**



**Rel. Humidity**

Electr. output	0 ... 200 ê
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**General**

Electr. connection	3 m cable
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## 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.  <b>General</b> <table border="1"> <tr> <td>Length</td> <td>200 mm</td> </tr> <tr> <td>Diameter</td> <td>24 mm</td> </tr> <tr> <td>Mesh aperture</td> <td>0,32 mm</td> </tr> <tr> <td>Material</td> <td>Niro, Brass</td> </tr> <tr> <td>Weight</td> <td>0.05 kg</td> </tr> </table>	Length	200 mm	Diameter	24 mm	Mesh aperture	0,32 mm	Material	Niro, Brass	Weight	0.05 kg
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	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.  <b>General</b> <table border="1"> <tr> <td>Mounting</td> <td>pin Ø 22 x 27 mm</td> </tr> <tr> <td>Material</td> <td>Al, galvanised and varnished</td> </tr> <tr> <td>Dimension</td> <td>Ø 170 x 450 mm</td> </tr> <tr> <td>Weight</td> <td>2.2 kg</td> </tr> </table>	Mounting	pin Ø 22 x 27 mm	Material	Al, galvanised and varnished	Dimension	Ø 170 x 450 mm	Weight	2.2 kg		
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