

Hygro - Thermotransmitter capacitive

Instruction for use 1.1005.00.xxx / 1.1015.00.xxx

Model for ducts / Room Model



Range of Application

The Hygro-Thermotransmitters are designed to measure the air humidity and the air temperature of the surrounding atmosphere. They emit the measuring values as electrical signals.

In the model for ducts the measuring elements are situated at the end of the immersion stem which can be put, for example, through the bore hole in the side of climatic ducts or climatic chambers for the measurement in neighbouring rooms

In the room model the measuring elements are situated below the slotted top.

Models

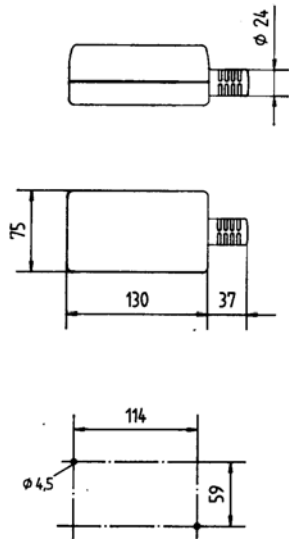
Order-No.	Design
1.1005.00.xxx	Model for ducts
1.1015.00.xxx	Room model
Electr. Output	2 x 0 ... 20 mA
.040	2 x 4 ... 20 mA
.041	2 x 0 ... 10 V
.061	2 x 0 ... 5 V
.073	

Technical Data

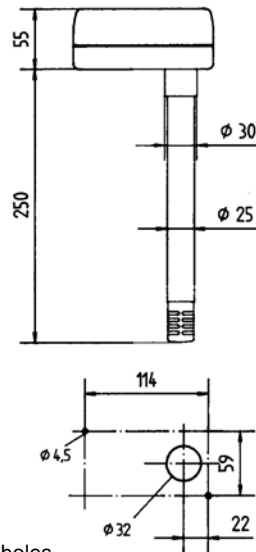
Meas. range	humidity	: 0 ... 100% rel.h.
	temperature	0 ... + 60 °C
Accuracy	humidty	: < ± 3% rel. F.
	temperature	± 0,15°C at 0°C
Time constant		: 5s in still air
Characteristic		: linear
Ambient temperature		: - 20 ... + 80°C
Sensor types		: capacitive for humidity, Pt 100 for temperature
Operating voltage		: 15 ... 24 V AC (- 10 / + 15 %) or 15 ... 36 V DC (± 10 %)
Connection		: screw terminals for braided wire up to 1,5 mm ²
Weight		: 0,2 kg
Operation position		: look upper picture

Dimensional Drawings

Room model

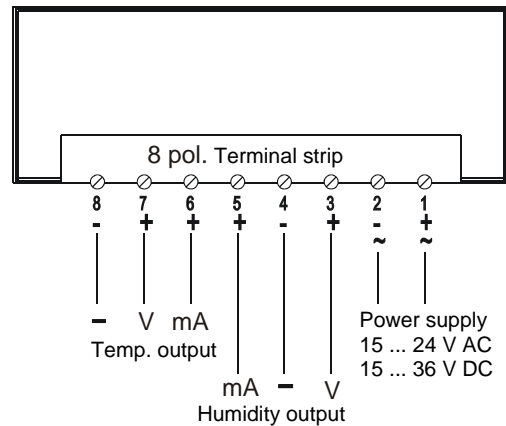


Model for ducts



Mounting boreholes

Circuit Diagram



Mounting

Mount the Hygro-thermotransmitter in such a way that it is protected from jarring, dust, chemical impurities and splashing water. Please avoid the direct influence of heat sources or heat-reflecting surfaces.

Attention:

The sensor shall be mounted in the centre of the duct side. Please take care that the distance to steam-moistening devices is a minimum of 3 m. Operation position - look upper picture page one.

Please fix a bore hole of 32 mm in the duct side, in order to make it possible to mount the immersion stem also with a wind shield.

The sensor is to be put into the duct bore whole with the immersion stem, and is screwed on the duct side. The instrument can be opened by pressing on both the narrow sides of the upper housing part, and pulling at the same time.

The connecting cable (flexible control cable LiYY) is to be fixed in the housing top with the screw clamps acc. to the circuit diagram, and is to be secured by strain relief.

This works should be carried out by a qualified specialist.

Maintenance

The instruments use to work in maintenance-free manner on proper application. Dust and soiling might affect the measuring results.



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