Hygro-Thermo Transmitter compact

The data are output as electrical analogue signals The transmitters consist of a capacitive humidity element and a Pt 100 resistance thermometer. For outdoor installation we recommend the use of the weather- and thermal radiation shield.

Order no.: 1.1025.55 xxx

Specification

Part number: 1.1005.54.7xx

Temperature	
Measuring range	-30 °C ... +70 °C
Meas. element	Pt 100 acc. to DIN IEC 60751 1/3 class B
Rel. Humidity	
Measuring range	0 % ... 100 % rel. h.
Accuracy	± 2% rel. h. (@ 5 ... 95 % rel. h. and 10 ... 40 °C)
Meas. element	Capacitive
General	
Electr. connection	plug connection
Protection	IP 30 for sensors IP 65 for electronic
Dimension	Ø 20 x 190 mm
Weight	0.45 kg

Versions

As per 1.1005.54.7xx, but:

Product number 1.1005.54.701

Temperature	
Measuring range	-30 ... +70 °C
Accuracy	±0,1 K (PT100)
Electr. output	PT100
Rel. Humidity	
Electr. output	0 ... 1 V
General	
Power supply	6 ... 30 V DC

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Product number 1.1005.54.761

Temperature

Measuring range	-30 ... +70 °C
Accuracy	±0,2 K
Electr. output	0 ... 10 V

Rel. Humidity

Electr. output	0 ... 10 V

General

Power supply	15 ... 30 V DC

Product number 1.1005.54.773

Temperature

Measuring range	-30 ... +70 °C
Accuracy	±0,2 K
Electr. output	0 ... 5 V

Rel. Humidity

Electr. output	0 ... 5 V

General

Power supply	10 ... 30 V DC

Accessories

Product	Product name	Brief description
	Teflonfilter with gauze ZE 20 1.1005.54.901	This hood is placed over the sensor and protects the measurement element from coarse dirt.

	Sinter Filter ZE 21 1.1005.54.902	This basket is placed over the sensor and protects the measurement element from high wind speed (>5 m/s) and increased dust. A necessity for sensors in use in exposed areas, eg. in marine climates, desert, mountains.
	Wall Holder 1.1005.54.903	for mounting the temperature (2.1280.xx.xxx) or hygrothermo Sensor (1.1005..xx.xxx) onto a wall, radiation- and precipitationprotected use (for ex. indoor) **General** Clamping range: Ø 20 mm Mounting: plate with with drillings 3 x Ø 6,5 mm Material: plastic, grey flange Dimension: 96 mm lang Weight: 0.075 kg
	Weather and Thermal Radiation Shield, compact 1.1025.55.000	Protective case for the temperature and humidity sensors (2.1280.xx.xxx and 1.1005.54.xxx)sensor compact for outdoor installation without artificial ventilation. **Material** Laminations: plastic, white Mast holder: stainless stell **General** Mounting: at tube Ø 35 ... 50 mm Dimension: Ø 120 x 275 mm Weight: 0.8 kg

Weather and Thermal Radiation Shield, compact
1.1025.55.100

Protective case for the preceding temperature sensor compact for outdoor installation with artificial ventilation.

Material	
Laminations	plastic, white
Mast holder	stainless stell
General	
Power supply	12V DC, 2 W
Electr. connection	5 m cable
Mounting	at tube Ø 35 ... 50 mm
Dimension	Ø 120 x 275 mm
Weight	0.8 kg

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