

HUMIDITY

Hygro-Thermo Transmitter compact

Part number: 1.1005.54.780

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: 1.1005.54.780





Temperature	
Measuring range	-40 °C ... +85 °C
Meas. element	Pt 100 acc. to DIN IEC 60751 1/3 class B
Electr. output	MODBUS RTU
Rel. Humidity	
Measuring range	0 % ... 100 % rel. h.
Accuracy	± 1.5 % rel. h. (@ 5 ... 95 % rel. h. and 10 ... 40 °C)
Meas. element	Capacitive
Electr. output	MODBUS RTU
Data output digital	
Interface	RS485 MODBUS RTU-protocol
General	
Power supply	5 ... 30 V DC
Electr. connection	plug connection
Protection	IP 30 for sensors IP 65 for electronic
Dimension	Ø 20 x 177 mm
Weight	0.45 kg

Versions

No other versions of this product are available.



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)														
		<table border="1"> <tr> <td colspan="2">General</td> </tr> <tr> <td>Clamping range</td> <td>Ø 20 mm</td> </tr> <tr> <td>Mounting</td> <td>plate with with drillings 3 x Ø 6,5 mm</td> </tr> <tr> <td>Material</td> <td>plastic, grey flange</td> </tr> <tr> <td>Dimension</td> <td>96 mm lang</td> </tr> <tr> <td>Weight</td> <td>0.075 kg</td> </tr> </table>	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		
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.														
		<table border="1"> <tr> <td colspan="2">Material</td> </tr> <tr> <td>Laminations</td> <td>plastic, white</td> </tr> <tr> <td>Mast holder</td> <td>stainless stell</td> </tr> <tr> <td colspan="2">General</td> </tr> <tr> <td>Mounting</td> <td>at tube Ø 35 ... 50 mm</td> </tr> <tr> <td>Dimension</td> <td>Ø 120 x 275 mm</td> </tr> <tr> <td>Weight</td> <td>0.8 kg</td> </tr> </table>	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
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

