HUMIDITY- AND TEMPERATURE TRANSDUCER



2-CHANNEL HUMIDITY/ TEMPERATURE TRANSDUCER

GHTU-1R-MP **Wall version** Standard type: Probe length: 50 mm

GHTU-1R-MP Art. no. 602585

GHTU-1K-MP

Art. no. 602587

GHTU-2K-MP

Art. no. 602592

GHTU-SHUT-MP Art. no. 603896

GHTU-KABEL-MP

Art. no. 604436

Specifications:

Housing:

Sensor tube:

The humidity & temperature transducer offers even greater possibilities to compensate the special sensor characteristics due to the newest microprocessor technology. Regarding precision, temperature stability and functionality a new dimension is entered. The transducer can be used for almost all applications due to the different types (e.g. wall or channel mount, with separated probe or with heat absorption hat) and the wide temperature range (electronic: -25 °C ... +50 °C; sensor: -40 ... +120 °C), 2 standard signal outputs.



Wall / channel version Standard type: Probe length: 220 mm



GHTU-2K-MP Channel version Standard type: Probe length: 220 mm



GHTU-SHUT-MP absorption hat / weather protection



GHTU-KABEL-MP wall version with cable and high humidity sensor

Design type KABEL: with separated sensor tube, sensor head (Ø 14 x 68 mm)

connected to device via 1 m teflon cable. Inclusive option high-humidty sensor

Heat protective shield / weather protective shield Design type SHUT:

Application: for highly precise outdoor measurements, strong

solar radiation and rain

 $\textbf{Design:} \ \text{Weather protective shield made of plastic, } \ \emptyset \ 110 \ \text{mm,}$ heights approx. 140 mm. Wall mounting panel made of stainless steel with 3 mounting holes for screws with maximal shaft

diameter 5 mm. Largest overhang 160 mm.

elbow-type plug acc. to EN 175301-803/A (IP65) Electric connection:

4 housing holes for wall mounting or by means of plastic Mounting:

tube clamps for duct mounting

min-/max-value memory, offset and slope adjustable, **Functions:**

output signal scaleable

Accessories and spare parts:

VAW

Art. no. 610765

Mounting clip for VA-angle at SHUT



Measuring ranges:		
Humidity:	0.0 100.0 % RH (temperature compensated)	
Temperature:	-40.0 +120.0 °C or -40.0 +248 °F	
Recommended humidity range:	20.0 80.0 % RH (standard) 5.0 95.0 % RH (with option high humidtiy)	
Display options:	with option UNI an alternative display unit can be shown instead of the humidity measuring value. The unit selection will be done via keyboard.	
Wet bulb temperature:	-27.0 +60.0 °C	
Dewpoint temperature:	-40.0 +60.0 °C	
Enthalpy:	-25.0 +999.9 kJ/kg	
Atmospheric humidity:	0.0 640.0 g/kg	
Absolute humidity:	0.0 200.0 g/m ³	
Accuracy: (at 25 °C and in	recommended range)	
Display:	humidity: ± 2.5 % RH temperature: ± 0.4 % of measuring value ± 0.2 °C	
Output signal:	humidity ± 0.2 % FS, temperature ± 0.2 % FS	
Temperature compensation:	automatically	
Auxiliary energy:	12 30 V DC or 18 30 V DC (for output: 0 10 V)	
Reverse voltage protection:	50 V, permanently	
Perm. impedance (at 4 2	20 mA): RA $[\Omega] \le (Uv[V] - 12V) / 0.02 A$	
Permissible load (at 0 1(10)V): RL $[\Omega] > 3000 \Omega$		
Display:	approx. 10 mm high, 4-digit LCD-display, alternating humidity and temperature display	
Working temperature:	-25 +50 °C (electronics)	
Sensor head and tube:	-40 +100 °C - for short time up to 120 °C	
Storage temperature:	-25 +70 °C	
Relative humidity (electronic):	$0\dots95~\%$ RH (non-condensing); If there is a risk of condensation due to temperature changes, please use our encapsulated or lacquered types (optionally available).	

ABS (IP65)

tube 14 mm Ø, with screw-type protection cap

Gre	isinger	
1.	Version	
	1R-MP	Wall / room version
	1K-MP	Wall /channel version
	2K-MP	Channel version
	KABEL-MP	Wall version with cable, and high humidity sensor, Incl. HO
	SHUT-MP	Radiation cap / weather protection incl.,,-HO" and ,,-LACK"
2.	Fitting length EL	
		No installation length, With KABEL / SHUT
	050	50 mm, Standard with 1R
	220	220 mm, Standard with 1K / 2K
	300	300 mm
	400	400 mm
	500	500 mm
3.	Output signal	
		2 x 4 20 mA, galvanically isolated
	AV01	2 x 0 1 V
	AV10	2 x 0 10 V
	AV01G	2 x 0 1 V, galvanically isolated, 2 angle connector
	AV10G	2 x 0 10 V, galvanically isolated, 2 angle connector
4.	Sensor	
		Standard sensor, Standard with 1R, 1K and 2K. Recommended measuring range: 20 80%
	НО	High humidity sensor, Recommended measuring range: 5 95%
5.	Option	
	UNI	Adjustable humidity display instead of the standard humidity values
	LACK	Coated PC Board
6.	Cable length	
		1 m (standard)
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