TRANSMITTER

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

General:

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.

GHTU-1K-MP

Standard type:

Wall / channel version

Probe length: 220 mm

Specifications:					
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:	e: −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 [Ω] \leq (Uv [V] - 12 V) / 0.02 A				
Permissible load (at 0 1	(10)V): RL [Ω] > 3000 Ω				
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):	$0\ldots 95~\%$ RH (non-condensing); If there is a risk of condensation due to temperature changes, please use our encapsulated or lacquered types (optionally available).				
Housing:	ABS (IP65)				
Sensor tube:	tube 14 mm Ø, with screw-type protection cap				



Probe length: 220 mm



GHTU-SHUT-MP

absorption hat /

weather protection

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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
Design type SHUT:	Heat protective shield / weather protective shield Application: for highly precise outdoor measurements, strong solar radiation and rain Design: Weather protective shield made of plastic, Ø 110 mm, heights approx. 140 mm. Wall mounting panel made of stain- less steel with 3 mounting holes for screws with maximal shaft diameter 5 mm. Largest overhang 160 mm.
Electric connection:	elbow-type plug acc. to EN 175301-803/A (IP65)
Mounting:	4 housing holes for wall mounting or by means of plastic tube clamps for duct mounting
Functions:	min-/max-value memory, offset and slope adjustable, output signal scaleable

Accessories and spare parts: VAW Art. no. 610765 Mounting clip for VA-angle at SHUT GHTU - 1 - 2 - 3 - 4 - 5 - 6

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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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