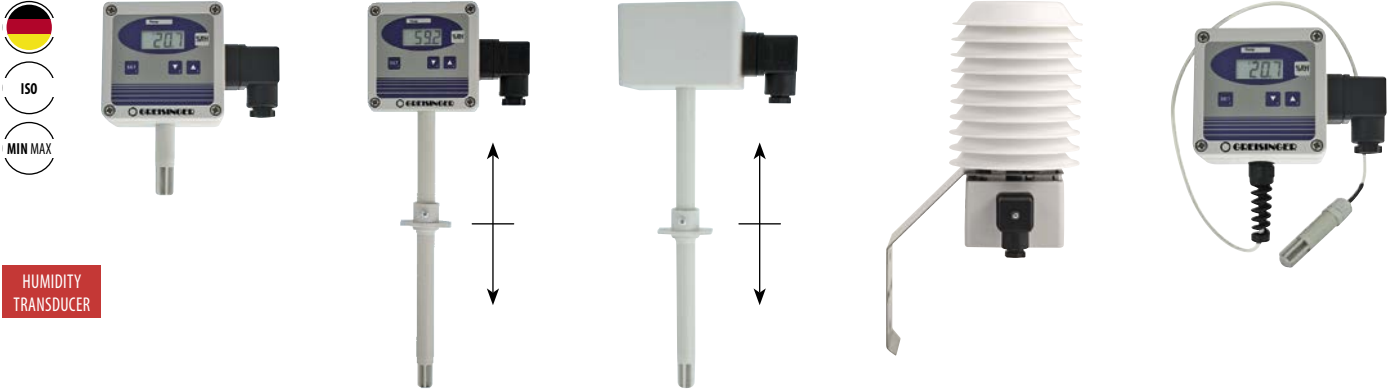


HUMIDITY TRANSDUCER



HUMIDITY TRANSDUCER

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

GRHU-1K-MP
Wall / channel version
Standard type:
Probe length: 220 mm

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

GRHU-SHUT-MP
absorption hat /
weather protection

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

GRHU-1R-MP

Art. no. 602938

GRHU-1K-MP

Art. no. 602941

GRHU-2K-MP

Art. no. 602943

GRHU-SHUT-MP

Art. no. 603953

GRHU-KABEL-MP

Art. no. 608043

General:

The humidity 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).

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 humidity)

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/m³

Accuracy: (at 25 °C and in recommended range)

Display: humidity: ±2.5 % RH
temperature: ±0.4 % of measuring value ±0.2 °C

Output signal: ±0.2 % FS

Temperature compensation: automatically

Auxiliary energy: 12 ... 30 VDC or 18 ... 30 VDC (for output: 0 ... 10 V)

Reverse voltage protection: 50 V, permanently

Perm. impedance (at 4 ... 20 mA): RA [Ω] ≤ (Uv [V] - 12V) / 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 ... 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
Design type KABEL:	with separated sensor tube, sensor head (Ø14 x 68 mm) connected to device via 1 m teflon cable. Inclusive option high-humidity 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 stainless 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



GRHU - 1 - 2 - 3 - 4 - 5 - 6

Greisinger	
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
	500 500 mm
3.	Output signal
	4 ... 20 mA
	AV01 Analogue output 0 ... 1 V
	AV10 Analogue output 0 ... 10 V, 3rd output not possible
4.	Sensor
	Standard sensor
	HO High humidity sensor
	HO High humidity sensor, free of charge
5.	Option
	UNI Adjustable humidity display instead of the standard humidity values
	LACK Coated PC Board
6.	Cable length
	1 m (standard)
	2M 2 m