GREISINGER electronic GmbH

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GREISINGER — electronic —

Analysis - Humidtiy

Product Information

Humidity / Temperature Transmitter incl. Sensor GHTU



- On-site display for humidity and temperature
- Output signals freely scalable
- Several design types

Characteristics

The EBHT is used for long-term monitoring, indoor climate monitoring and monitoring of storage rooms. The sensor module is particularly suitable for industrial applications due to its robust surface-mounted housing.

Due to the availability of several design types (like e.g. for surface or duct mounting, with sensor in distance to housing or with weather protection shield) the GHTU are appropriate for almost all applications.

The housing of the module is made of robust ABS. The modules have an on-site display, therefore direct configuration is possible.

Professional Instrumentation

Design types

	1R	1K	2K	KABEL	SHUT
Design type	surface design	surface / duct design	duct design	surface design with cable	surface design with weather proofing
Length of probe / cable / hat	EL = 50 mm	EL = 220 mm	EL = 220 mm	in dis- tance to housing, 1 m Te- flon cable	Hat = 82 mm
outlet probe / cable	on the side	on the side	bottom	on the side	bottom

Other features

SHUT

R / 1K / 2K : unscrewable protective cap with

gauze filter insert made of stainless steel

(105 µm mesh size)

KABEL : includes high humidity sensor (HO) and

varnished board (LACK) by default
: weather protection shield made of plastic, reduces distortions by sun / rain,

includes high humidity sensor (HO) and varnished board (LACK)

Technical data

Measuring ranges Humidity: Standard High humidity Temperature	0.0100.0 % RH recomm. measuring range: 2080 % RH recomm. measuring range: 595 % RH -40.0+100 °C; 120.0 °C < 1min (-40.0+248.0 °F)
Measuring sensors	capacitive polymer humidity sensor and Pt1000
Accuracy Humidity Temperature	±2.5 % RH (at recomm. measuring range) ±0.4 % of m.v. ±0.2 °C
Electric connection	elbow-type plug EN 175301-803/A, output 2-wire, max. 1.5 mm² each
Output signal	2x 420 mA, 01 V, 010 V, freely scalable
Power supply	1230 V DC for 420 mA or 01 V 1830 V DC for 010 V
Permissible burden	$R_A[\Omega] = (U_V[V] - 12 V) / 0.02 A$
Permissible load	R _L [Ω] > 3000 Ω
Display	10 mm high, 4-digit LCD-display
Housing	ABS, working temperature: -2050 °C
Protection class	IP65 (housing)

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A subsidiary of

pi_gr_GHTU_e V1.00-04

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Dimensions

SHUT

1R / 1K / 2K : 82 x 80 x 55 mm (H x W x D)

(without probe/plug)

tube-Ø 14 mm

KABEL : $82 \times 80 \times 55 \text{ mm} (H \times W \times D)$

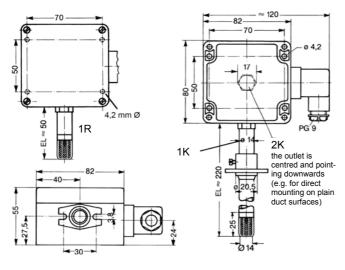
(without probe/plug)

probe tube in distance to housing, sensor head (Ø 14 x 68 mm)

82 x 80 x 55 mm ((H x W x D)

(without probe/plug)

shield Ø 110 mm, height 140 mm



4.	Output signal					
	GA1	420 mA, freely scalable,				
		output signals are electrically isolated				
	AV2	01 V, freely scalable,				
		output signals are not electrically isolated				
	AV3	010 V, freely scalable,				
		output signals are not electrically isolated				
	GV2	01 V, freely scalable,				
		output signals are electrically isolated				
	GV3	010 V, freely scalable,				
		output signals are electrically isolated				
4.	Option (gene	eral) (combination of multiple options possible)				
	00	without option				
	LACK	board varnished on both sides				
		(for outdoor usage)				
		standard for types KABEL and SHUT				
	UNI	selectable humidity display unit				
		Instead of displaying and output the standard				
		humidity value you can change to one of the fol-				
		lowing values via interface or VO-display:				
		wet bulb temperature				
		dew point temperature				
		enthalpy				
		atmospheric humidity				
		absolute humidity				

Ordering example:

GHTU-KABEL-MP-HO-000-GA1-LACK-UNI

Accessories / Spare parts

Spare protective cap

made of plastic with gauze filter insert made of stainless steel (suitable for standard and high humidity)

Brass filter

(not suitable for high humidity)

Ordering code

2

	1.				2.		3.		4.	
GHTU -		-	MP	-		-		-		l

1.	Design typ	e			
	1R	Surface design			
	1K	Surface / duct design			
	2K	Duct design			
	KABEL	Surface design with cable (incl. HO + LACK)			
	SHUT	Weather protective shield / heat-protective hat (incl. HO + LACK)			
2.	Option (se	nsor)			
	00	standard sensor (standard for 1K, 1R and 2K) (recomm. measuring range: 2080 % RH)			
	НО	high temperature sensor (standard for KABEL and SHUT) (recomm. measuring range: 595 % RH)			
3.	Fitting leng	gth EL			
	000	without fitting length (for KABEL / SHUT)			
	050	length = 50 mm (standard for type 1R)			
	220	length = 220 mm (standard for type 1K / 2K)			
	300	length = 300 mm			
	400	length = 400 mm			
	500	length = 500 mm			

