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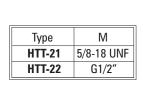fax.   +48 22 7202305
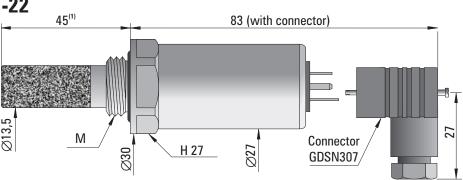e-mail   czaki@czaki.pl

HUMIDITY SENSOR WITH TRANSMITTER
type HTT-21, type HTT-22

Type	M
HTT-21	5/8-18 UNF
HTT-22	G1/2"

TECHNICAL DATA

Sensor

Application	measurement of temperature and relative humidity of gas, such as air in tanks and pipelines. process connection with male thread
Measuring range	−40°C...+80°C[(1)], 0...100%RH
Filter material	5 μm sintered acid-resistant steel
Housing material	stainless steel 1.4305
Weight	approx. 150 g
Maximal gas pressure	3MPa
Operating temperature	−40°C...+60°C

Transmitter

Processing ranges:

temperature	programmable, max. −40°C ... +120°C (upper-lower value $\geq$ 10°C)
relative humidity	programmable, max. 0% ... 100% (upper-lower value $\geq$ 10%)
dew point temperature	programmable, max. −40°Cdp ... 80°Cdp (upper-lower value $\geq$ 10°Cdp)

Dew point is calculated based on relative humidity and temperature

Temperature processing error	max. 0,5°C for 0°C $\leq$ T $\leq$ 60°C and up to 1,5°C beyond this range
Humidity processing error	max. 3% for 20% $\leq$ RH $\leq$ 80% and up to 5% beyond this range
Output signals	**2 x 4-20 mA** (common plus supply)
Power supply	8 ... 36 V DC / 50 mA (via current loop of humidity signal output)
Accessories (ordered separately):	**DPT-IF2013U** - programming interface, includes 1 cable with GDSN307 connector
	DPT-SB - sampling block with two 1/8NPT threaded holes

[(1)] Product can be made with a spacer tube of any length. Suitable length allows measurements of temperatures up to 120°C

ORDERING CODE   (1)   (2)   (3)   (4)   (5)   (6)

HTT — ☐ / ☐ / ☐ / ☐ / ☐ / ☐

(1)	Process connection	5/8-18 UNF **(21)**, G1/2" **(22)**
(2)	Lower end of the temperature processing range	value in [°C], <u>default −40</u>
(3)	Upper end of the temperature processing range	value in [°C], <u>default +80</u>
(4)	Lower end of the humidity processing range	value in [%RH] or [°Cdp], <u>default 0</u>
(5)	Upper end of the humidity processing range	value in [%RH] or [°Cdp], <u>default 100</u>
(6)	Humidity unit	**%RH** or **°Cdp**, <u>default %RH</u>

Ordering example: **HTT-21** denotes sensor with a 5/8-18 UNF thread, temperature and humidity transmitter with ranges: 40...+80°C, 0...100%RH for 4-20mA current signals

HTT-22/-20/50/-30/40/°Cdp denotes sensor with a G1/2" thread, temperature and humidity transmitter with ranges: -20...+50°C i -30...40°Cdp for 4-20mA current signals