

WM261

Relative Humidity & Temperature Transmitter



The WM261 has been developed for high precision measurement of relative humidity and temperature. This transmitter is available with a range of outputs.

Highlights

- Designed for accurate measurement in a controlled environment
- Output signal configurable on request
- Linearization for a specific isotherm on request

Technical Specifications

Performance	
Measurement range (RH)	0–100% RH
Measurement range (T)	-20 to +80°C / -4 to +176°F
Accuracy at 23°C / 73°F Humidity	<±2% RH (5–95% RH)
Accuracy at 23°C / 73°F Temperature	Pt100 1/3DIN direct ±0.2°C / ±0.36°F Current output ±0.3°C / ±0.54°F
Stability – RH sensor	<±1% RH/year
Response time	10 sec typical (for 90% of the step change)
Electrical output/input	
Output signal (RH) configurable on request	4–20 mA 0–1 V, 0–5 V, 0–10 V
Output signal (T) configurable on request	4–20 mA 3-wire 1/3 DIN Pt100 direct 0–1 V, 0–5 V, 0–10 V
Supply voltage	Output 4–20 mA: V + = 12–30 VDC Output 0–10 V: V + = 15–30 VDC Output 0–5 V: V + = 10–30 VDC Output 0–1 V: V + = 8–30 VDC
Load resistance	Output 4–20 mA: Rload < (Uv-9)/0.02 Output 0–10 V: R > 10 k Ω Output 0–5 V: R > 5 k Ω Output 0–1 V: R > 1 k Ω
Current consumption	2x20 mA max
Operating conditions	
Operating humidity	Sensing element 0–100% RH (Non-condensing) Housing, Storage 0–98% RH (Non-condensing)
Operating temperature	Measurement head -30 to +85°C / -22 to +185°F Housing -30 to +70°C / -22 to +158°F Storage -40 to +70°C / -40 to +158°F
Mechanical specification	
Ingress protection	IP65
Housing material	PPO
Dimensions	Housing 80 x 80 x 34mm / 3.15 x 3.15 x 1.34" Probe L=85mm, ø12mm / L=3.35", ø 0.47"
Electrical connection	Screw terminals
Weight	100g / 3.53oz

Accessories and spare parts

You can check your hygrometer with the control kit HKC which is based on the principle of non-saturated salt solutions. Refer to technical data sheet CONTROL KIT.

Control Kit HKC

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02 - 2636 - 0009

02 - 2636 - 4753

www.gilwoo.co.kr giltron@chol.com

