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 | | | | | |
|---|--|---|--|--|--|
| | formance | | | | |
| 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) | | | | |
| Electrica | al 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: Output 0–10 V: Output 0–5 V: Output 0–1 V: | V + = 12-30 VDC V + = 15-30 VDC V + = 10-30 VDC V + = 8-30 VDC | | | |
| Load resistance | Output 4–20 mA: Output 0–10 V: Output 0–5 V: Output 0–1 V: | Rload $<$ (Uv-9)/0.02 R $>$ 10 k Ω R $>$ 5 k Ω R $>$ 1 k Ω | | | |
| Current consumption | 2x20 mA max | | | | |
| Operating conditions | | | | | |
| Operating humidity Sensing element Housing, Storage | 0–100% RH (Non-condensing) 0–98% RH (Non-condensing) | | | | |
| Operating temperature Measurement head Housing Storage | -30 to +85°C / -22 to +185°F -30 to +70°C / -22 to +158°F -40 to +70°C / -40 to +158°F | | | | |
| Mechanic | cal specification | | | | |
| Ingress protection | IP65 | | | | |
| Housing material | PPO | | | | |
| Dimensions Housing Probe | 80 x 80 x 34mm / 3.15 x 3.15 x 1.34" L=85mm, ø12mm / L=3.35", ø 0.47" | | | | |
| Electrical connection | Screw terminals | | | | |
| Weight | 100g / 3.53oz | | | | |

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Accessories and spare parts

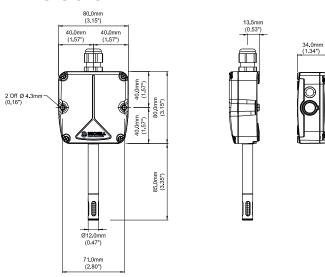
You can check your hygrometer with the control kit HKC which is based on the principle of non-saturated salt solutions. Refer to technical data sheet CONTROL KIT.

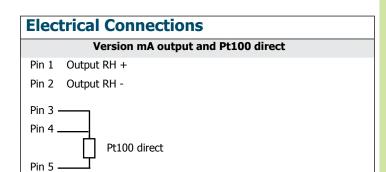




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Dimensions

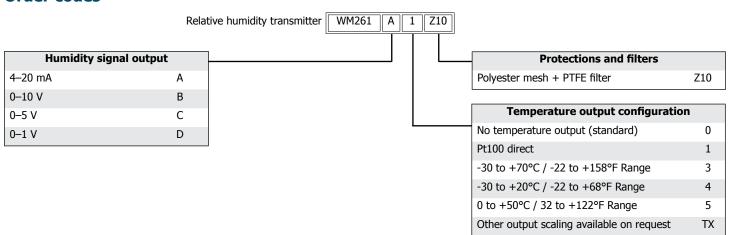




| Version mA output for RH and Temperature | | | | |
|--|----------------------|--|--|--|
| Pin 1 | Output temperature + | | | |
| Pin 2 | Output Temperature - | Warning: Temperature channels Pin 1 and | | |
| Pin 3 | Output RH + | Pin 2 must be powered always | | |
| Pin 4 | Output RH - | | | |

| Versio | on V output and Pt100 direct | Versio | on V output for RH and Temperature |
|---------|---------------------------------|--------|---------------------------------------|
| Pin 1 | Power supply V+ | Pin 1 | Power supply V+ |
| Pin 2 | Common ground | Pin 2 | Common ground |
| Pin 3 | Output RH + | Pin 3 | Output Temperature + |
| Pin 4 - | Pt100 direct | Pin 4 | Output RH + |
| Pin 5 | | | |

Order codes



Example: WM261 A 1 Z10

Relative humidity transmitter WM261 with 4-20 mA output, Pt100 direct signal, Polyester mesh and PTFE filter.

Please note: Michell Instruments adopts a continuous development program which sometimes necessitates specification changes without notice. Please contact us for latest version. Ref: WM261_97184_V1_UK_1009

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