

WM261

Digital Relative Humidity & Temperature Transmitter, Wall Mount

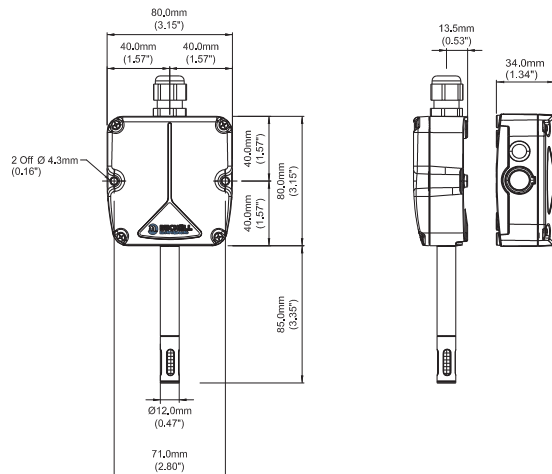
The WM261 has been developed for high precision measurement of relative humidity and temperature. This transmitter is available with a range of outputs.



Highlights

- Designed for accurate measurement in a controlled environment
- Temperature output scaling configurable on request
- Linearization for a specific isotherm on request

Dimensions



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, 0–5, 0–10 V
Output signal (T) configurable on request	4–20 mA 3-wire 1/3 DIN Pt100 direct 0–1, 0–5, 0–10 V
Supply voltage	Output 4–20 mA: V + = 12–30 V DC Output 0–10 V: V + = 15–30 V DC Output 0–5 V: V + = 10–30 V DC Output 0–1 V: V + = 8–30 V DC
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	2 x 20 mA max

Operating conditions

Operating temperature	
Probe	-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 (NEMA 4 level)
Housing material	PPO + POM
Dimensions	
Housing	80 x 80 x 34mm (3.15 x 3.15 x 1.34")
Probe	L=85mm, ø12mm (L=3.35", ø0.47")
Weight	100g (3.53oz)
Electrical connections	Screw terminals

Electrical Connections

Version mA output and Pt100 direct	Version mA output for RH and Temperature	Version V output and Pt100 direct	Version V output for RH and Temperature
Pin 1 Output RH +	Pin 1 Output temperature +	Pin 1 Power supply V +	Pin 1 Power supply V +
Pin 2 Output RH -	Pin 2 Output Temperature -	Pin 2 Common ground	Pin 2 Common ground
Pin 3	Pin 3 Output RH +	Pin 3 Output RH +	Pin 3 Output Temperature +
Pin 4	Pin 4 Output RH -	Pin 4	Pin 4 Output RH +
Pin 5		Pin 5	
Pt100 direct 		Pt100 direct 	
Warning: Temperature channels Pin 1 and Pin 2 must be powered always			

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

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