

WM261

Digital Relative Humidity & Temperature Transmitter, Wall Mount

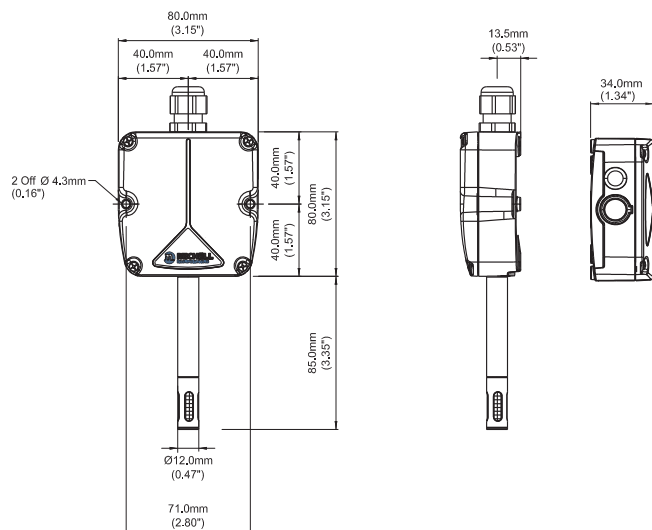


The WM261 has been developed for high precision measurement of relative humidity and temperature. This transmitter is available with a range of outputs.

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

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

HKC

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		Warning: Temperature channels Pin 1 and Pin 2 must be powered always		Pin 5			

Ordering Codes

To construct the order code, select the relevant feature from the tables below, starting with the base model, which is {Feature A} and then add on options to create a string: {Feature A}+{Feature B}+{Feature C}+{Feature D}

Order example: WM261+A+1+Z10

Relative humidity transmitter WM261 with 4-20 mA output, Pt100 direct signal, noryl slotted cap and polyester PTFE filter

