

WM33 & 52

Relative Humidity and Temperature Transmitter, Wall Mount



The WM Series are wall-mounted units that have the ability to display and provide an output signal of % RH, dew point or absolute humidity and temperature. The WM Series offers excellent measurement accuracy and stability wherever a wall-mounted sensor is required.

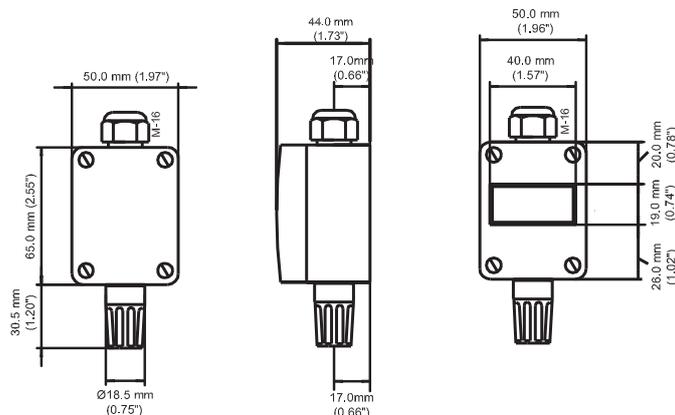
Highlights

- WM33 is designed for low cost HVAC applications
- WM52 has digital technology and is designed for accurate measurements in a controlled environment
- Easy to re-calibrate to maintain high accuracy

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	WM52: <±2% RH (10–90% RH) WM33: <±3% RH (30–80% RH)
Accuracy at 23°C (73°F) Temperature	WM52: ±0.2°C (±0.36°F) WM33: ±0.3°C (±0.54°F)
Stability – RH Sensor	±1% RH/year
Response time – RH Sensor	<10 sec typical without filter (for 90% of the step change)
Electrical output/input	
Output signal	4–20 mA, 0–1, 0–5, 0–10 V
Supply voltage	14–30 V DC (for 0-5 / 0-10 V output) 5–30 V DC (for 0–1 V & 4-20 mA output)
Operating conditions	
Operating temperature	
Probe, Housing	-30 to +85°C (-22 to +185°F)
Storage	-40 to +85°C (-40 to +185°F)
PRT	
Measurement range	Pt100/1000: -50 to +200°C (-58 to +392°F)
Accuracy	Pt100/1000: ±0.15°C
Mechanical specification	
Housing material	White molded polymer
Weight	82g (2.89oz)
Electrical connections	Screw terminals
Alternative outputs	
Dew point	-40 to +60°C (-40 to +140°F)
Absolute humidity	0–200g/m ³ (0-87.4gr/ft ³)

Dimensions

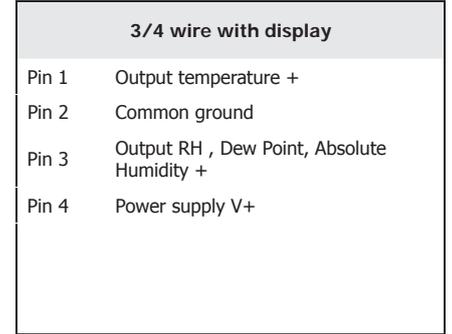
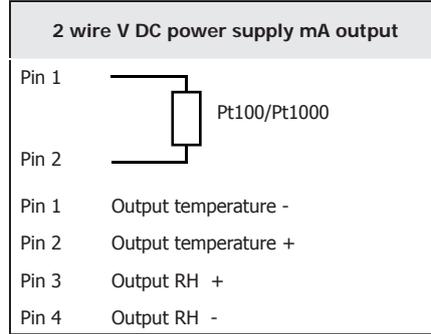
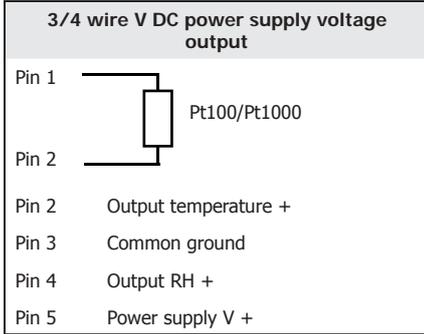


Accessories and Spare Parts

19mm (0.75") Slotted protection cap white	A000001
19mm (0.75") PVDF filter	A000014
19mm (0.75") PVDF filter with protection cap white	A000016
19mm (0.75") Mesh filter with protection cap black	A000021
19mm (0.75") Arrow stainless steel sintered filter 5/10/20 µm	A000025/26/27
19mm (0.75") Foil filter 2µm with protection cap white	A000041
19mm (0.75") Oleophobic foil filter 0.7µm with protection cap white	A000043
19mm (0.75") Foil filter 1.5µm with protection cap white	A000045
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

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Electrical Connections



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}+{Feature E}+{Feature F}

Order example: WM52+5+DX+H+T3

Relative humidity and temperature transmitter WM52, 0-1 V output, with display, relative humidity configuration and 0 to 50°C temperature range

