WM33 & 52

Relative Humidity and Temperature Transmitter, Multi Unit



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.

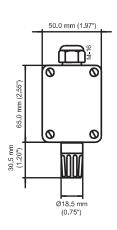
Highlights

- WM33 was 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

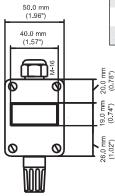
Performance Measurement range (RH) 0-100% RH Measurement range (T) -4 to +176°F / -20 to +80°C or Pt100/1000 RH Accuracy at 23°C/73°F WM52: <±2% RH (10-90% RH) WM33: <±3% RH (30-80% RH) WM52: ±0.2°C (-10 to +50°C) Temperature Accuracy ±0.36°F (14 to 122°F) WM33: ±0.3°C (5 to 40°C) ±0.54°F (41 to 104°F) Stability - RH Sensor ±1% RH/year <10 sec typical without filter (for 90% Response time - RH Sensor of the step change) Electrical output/input 4-20 mA, 0-1, 0-5, 0-10 VDC Output signal Supply voltage 14-30 VDC, 5-30 VDC (0-1 V & mA output) **Operating conditions** Operating humidity 5-95% non-condensing Probe, housing, storage Operating temperature Probe, Housing -20 to +160°F / -30 to +70°C Storage -40 to +165°F / -40 to +75°C **PRT** Measurement range Pt100/1000: -60 to +395°F / -50 to +200°C Accuracy Pt100/1000: ±0.15% Mechanical specification Housing material Molded polymer housing Weight 2.9oz / 82g **Electrical connections** Screw terminals Alternative outputs -40 to +140°F / -40 to +60°C **Dew point** Absolute humidity 0 - 87.4gr/ft3 / 0-200g/m3

Technical Specifications

Dimensions





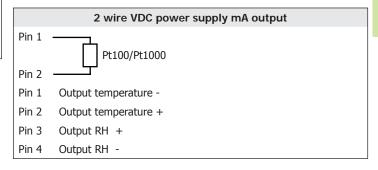




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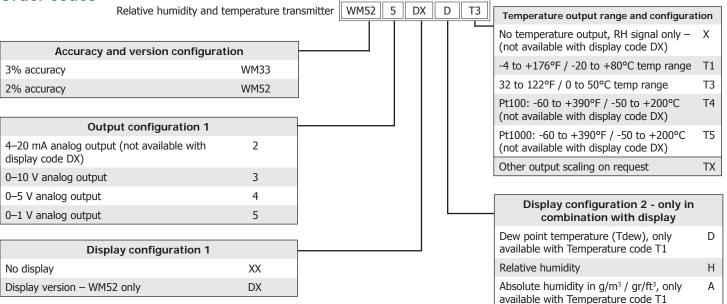
Accessories and spare parts You can check your hygrometer with the **Control Kit HKC** control kit HKC which is based on the principle of non-saturated salt solutions. Refer to technical data sheet CONTROL KIT. Electrical connection Standard cable gland Slotted protection cap, white A000001 **PVDF** filter A000014 PVDF filter with protection cap A000016 Wire mesh filter with protection cap, black A000021 Stainless steel sintered filter A000025/26/27 5/10/20 µm Foil 2µm filter with white protection cap A000041 Foil 1.5µm filter with white protection cap A000045

Electrical Connections	
	3/4 wire VDC power supply voltage output
Pin 1	Pt100/Pt1000
Pin 2	
Pin 2	Output temperature
Pin 3	Common ground
Pin 4	Output RH
Pin 5	Power supply V+



3/4 wire with display	
Pin 1	Output temperature
Pin 2	Common ground
Pin 3	Output RH, Dew Point, Absolute Humidity
Pin 4	Power supply V+

Order codes



Example: WM52 5 DX D T3

Relative humidity and temperature sensor WM52, 2% accuracy, 0 to 1 V output for relative humidity and 32 to +122°F / 0 to 50°C temperature signal, with display.

Please note: Michell Instruments adopts a continuous development program which sometimes necessitates specification changes without notice. Please contact us for latest version. Ref: WM33&52_1001US_P



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