MICHELL Instruments

WM33 & 52

RELATIVE HUMIDITY & TEMPERATURE TRANSMITTER WALL MOUNT

คุณสมบัติ

อุปกรณ์วัดความชื้นและอุณหภูมิขนาดเล็กแบบติดตั้งบนผนังและเพดาน ภายในห้องมีหน้าจอแสดงผลภายในตัว (Option) เป็นตัวเลขดิจิตอล โดยมีให้เลือกใช้งานทั้งแบบวัดความชื้นเพียงอย่างเดียว และวัดความชื้นและอุณหภูมิภายในตัวเดียวกัน มีเอาต์พุตแบบ 2 สาย 4-20 mAและ 3/4 สาย 0-1 V , 0-5 V , 0-10 V หรือ 0-1 mA โดยการตั้งค่า มีความเที่ยงตรงสูง ±2% ส่วนอุปกรณ์เพิ่มเติมจะมีฟิลเตอร์ป้องกันฝุ่น

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

ข้อมูลทางเทคนิค

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	WM33: <±3% RH (30-80% RH) WM52: <±2% RH (10-90% RH)
Accuracy at 23 °C (73 °F) Temperature	WM33: ±0.3 °C (±0.54 °F) WM52: ±0.2 °C (±0.36 °F)
Stability - RH Sensor	±1% RH/year
Response time - RH Sensor	<10 sec typical without fi lter (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,	-30 to +85 °C (-22 to +185 °F)
Housing 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 SPECIFI CATION	
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/m3 (0-87.4gr/ft3)

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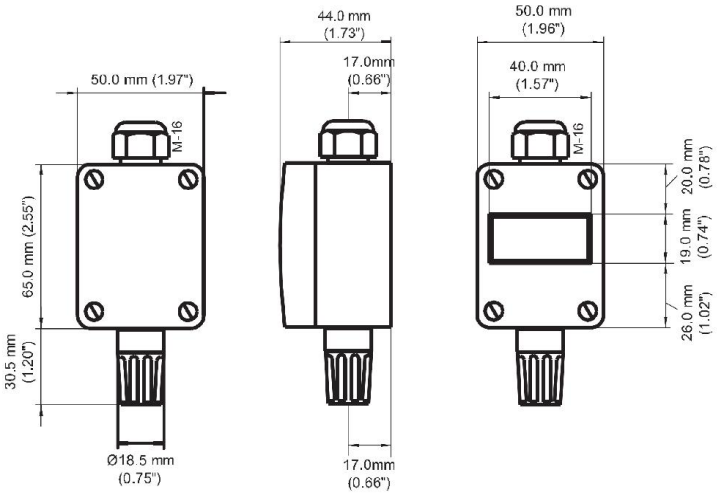
ขนาดและมิติ

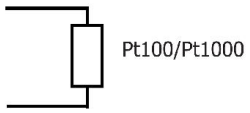


Accessories and Spare Parts

19 mm (0.75") Slotted protection cap white	A000001
19 mm (0.75") PVDF filter	A000014
19 mm (0.75") PVDF filter with protection cap white	A000016
19 mm (0.75") Mesh filter with protection cap black	A000021
19 mm (0.75") Arrow stainless steel sintered filter 5/10/20 um	A000025/26/27
19 mm (0.75") Foil filter 2 um with protection cap white	A000041
19 mm (0.75") Oleophobic foil filter 0.7um with protection cap white	A000043
19mm (0.75") Foil filter 1.5 um with protection cap white	A000045
You can check your hygrometer with the Control Kit HKC which is based on the principleof non-saturated salt solutions. Refer to technical data sheet CONTROL KIT	HKC

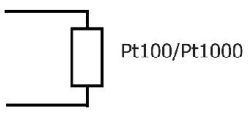
การต่อใช้งาน

3/4 wire V DC power supply voltage output



Pin 2	Output temperature +
Pin 3	Common ground
Pin 4	Output RH +
Pin 5	Power supply V +

2 wire V DC power supply mA output



Pin 1	Output temperature -
Pin 2	Output temperature +
Pin 3	Output RH +
Pin 4	Output RH -

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+

การสั่งซื้อ

WM33 | 5 | T3

Base Model {Feature A}	
Relative humidity and temperature transmitter	WM33

Signal Output {Feature B}	
4–20 mA	2
0–10 V	3
0–5 V	4
0–1 V	5

Temperature Signal {Feature C}	
-20 to +80ºC (-4 to +176ºF)	T1
0 to +50ºC (+32 to +122ºF)	T3
Pt100: -50 to +200ºC (-58 to +392ºF)	T4
Pt1000: -50 to +200ºC (-58 to +392ºF)	T5
Other output scaling available on request	TX
RH signal only. No temperature output	X

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

WM52 | 5 | DX | H | T3

Base Model {Feature A}	
Relative humidity and temperature transmitter	WM52

Signal Output {Feature B}	
4–20 mA	2
0–10 V	3
0–5 V	4
0–1 V	5

Display {Feature C}	
Display version (not possible with 4-20 mA output)	DX
No display	XX

Moisture Signal {Feature D}	
Absolute Humidity (g/m^3) (only with T1)	A
Dew-point (Tdew) (only with T1)	D
Relative humidity	H

Filter {Feature E)	
-20 to +80ºC (-4 to +176ºF)	T1
0 to +50ºC (+32 to +122ºF)	T3
Pt100: -50 to +200ºC (-58 to +392ºF) class A	T4
Pt1000: -50 to +200ºC (-58 to +392ºF) class A	T5
Other output scaling available on request	TX
RH signal only. No temperature output	X