

# MDM25

## Hand-Held Dew-Point Hygrometer



The MDM25 is a portable, battery-operated handmeter, and is available with a number of different probe configurations. It displays relative humidity, temperature and one calculated value, making this handmeter suitable for a wide range of applications. The user can choose to display either °C or °F.

### Highlights

- Displays RH & T, plus dew point, absolute humidity and wet bulb temperature
- Simple to operate
- Long term stability:  $\pm 1\%$  RH over 12 months

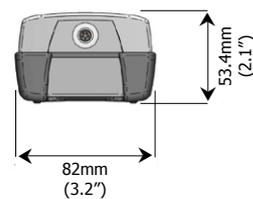
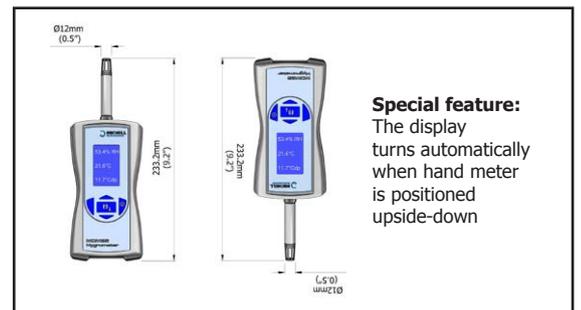
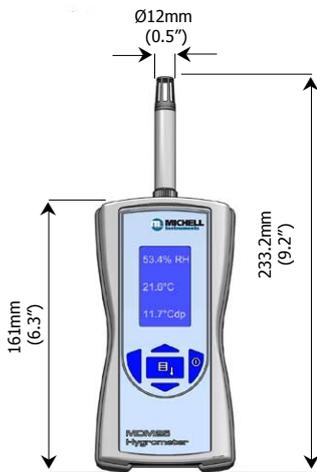
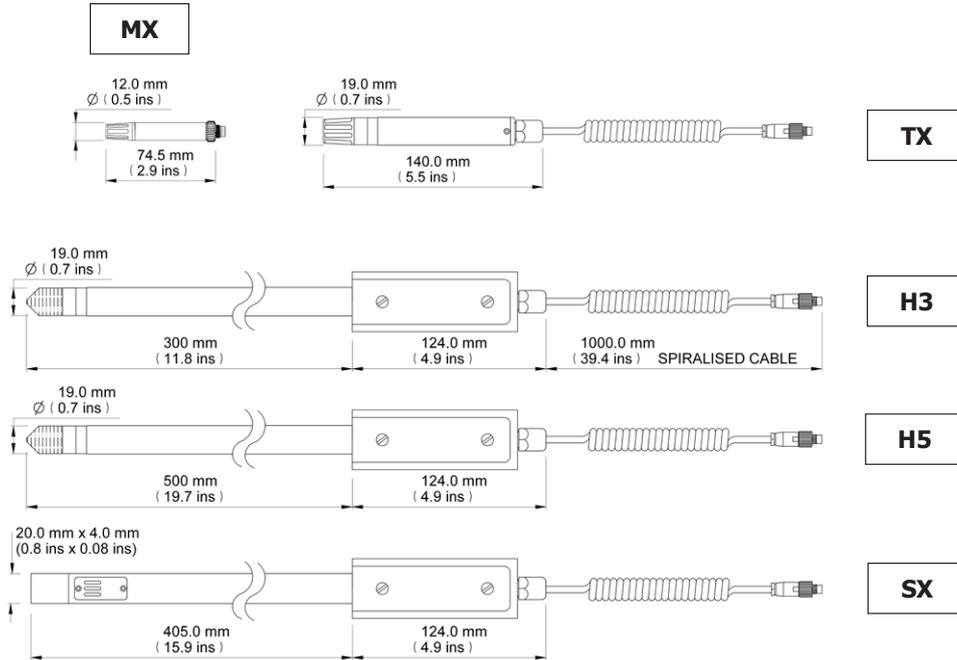
### Technical Specifications

Performance	
<b>Measurement range (RH)</b>	0 - 100% RH
<b>Measurement &amp; operating range (T)</b>	
Fixed and Standard probe	-20 to +80°C (-4 to +176°F)
Sword probe	-20 to +100°C (-4 to +212°F)
Remote probe	-20 to +150°C (-4 to +302°F)
<b>Accuracy at 25°C (77°F)</b>	
<b>Humidity</b>	
- Fixed probe	$\pm 2\%$ RH (10 - 90% RH)
- Remote probes	$\pm 2\%$ RH (5 - 95% RH)
<b>Accuracy at 25°C (77°F)</b>	$\pm 0.2^\circ\text{C}$ ( $\pm 0.36^\circ\text{F}$ )
<b>Temperature</b>	
<b>Stability - RH Sensor</b>	$\pm 1\%$ RH/year
<b>Response time - RH Sensor</b>	<10 sec typical (for 90% of the step change)
<b>Calculated variables</b>	Td, a, Tw
Electrical output/input	
<b>Supply voltage</b>	4.5 V (3 x AA batteries - provide approximately 70 hours of operation)
<b>Electrical connections</b>	M9 5-way triad connector
Mechanical specification	
<b>Ingress protection</b>	IP65 - Hand meter only
<b>Handmeter housing material</b>	Molded polymer housing ABS + rubber surround
<b>Weight</b>	
Hand meter	MDM25 300g
Fixed probe	MX 30g
Standard probe	TX 90g
Sword probe	SX 500g
Round 300mm probe	H3 380g
Round 500mm probe	H5 620g
<b>Display resolution</b>	Graphic LCD 128 x 64 pixels % RH, °C, °F, g/m <sup>3</sup> , °Cdp, °Fdp

### Accessories and Spare Parts

19mm (0.75") slotted protection cap black	<b>A000002</b>
12mm (0.47") Slotted protection cap, black	<b>A000003</b>
19mm (0.75") PVDF filter	<b>A000014</b>
12mm (0.47") PVDF filter	<b>A000017</b>
12mm (0.47") PVDF filter with protection cap, black	<b>A000018</b>
19mm (0.75") mesh filter with protection cap, black	<b>A000021</b>
12mm (0.47") Mesh filter with protection cap, black	<b>A000022</b>
12mm (0.47") Flat SS sintered dust filter	<b>A000023</b>
19mm (0.75") Arrow SS sintered filter 10µm	<b>A000026</b>
12mm (0.47") Arrow 20 µm SS sintered filter	<b>A000028</b>
Rubber surround for hand meter case	<b>A000400</b>
Carrying case	<b>A000401</b>
Batteries (3 AA Alkaline cells)	<b>A000402</b>
MDM25 hand meter (body)	<b>MDM25</b>
Fixed probe	<b>MDM-MX</b>
Standard probe	<b>MDM-TX</b>
Sword type probe	<b>MDM-SX</b>
Remote high temperature probe, 300mm (11.8")	<b>MDM-H3</b>
Remote high temperature probe, 500mm (19.6")	<b>MDM-H5</b>
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	<b>HKC</b>

## Dimensions



## 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}

**Order example:** MDM25+MX

Relative humidity and temperature handheld device with fixed probe (comes standard with 3 AA Alkaline batteries)

