

# MDM25

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

### Technical Specifications: Hand Meter

Performance	
Measurement units	%RH, °C/°F Ta, °C/°F Td, g/m <sup>3</sup> , °C/°F Tw
Mechanical specification	
Ingress protection	IP54 - Hand meter only
Handmeter housing material	Molded polymer housing ABS + rubber surround
Weight	300g (10.58oz)
Display resolution	Graphic LCD 128 x 64 pixels
Electrical output/input	
Supply voltage	4.5 V (3 x AA batteries - provide approximately 70 hours of operation)
Electrical connections	M9 5-way triad connector

### Probes

Performance	
Measurement range (RH)	0 - 100% RH
Accuracy at 25°C (77°F) Temperature	< $\pm 0.2^{\circ}\text{C}$ ( $\pm 0.36^{\circ}\text{F}$ )
Stability - RH Sensor	$\pm 1\%$ RH/year
Response time - RH Sensor	<10 sec typical (for 90% of the step change)
Measurement & operating range (T)	
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)
Accuracy at 25°C (77°F) Humidity	- Fixed probe $\pm 2\%$ RH (10 - 90% RH) - Remote probes $\pm 2\%$ RH (5 - 95% RH)
Mechanical specification	
Weight:	
Fixed Probe	FPR 30g (1.06 oz)
Standard Probe	SPR 90g (3.17 oz)
Sword Probe	SWPR 500g (1.1 lb)
Round 300mm probe	HTPR300 380g (13.4 oz)
Round 500mm probe	HTPR500 620g (1.37 lb)

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

Issue No: MDM25 Datasheet\_97227\_V2\_UK\_0814

## Dimensions

