

## DM-101 Portable multimeter



The DM-101 is a small portable meter that can be taken along to monitor environmental conditions. The meter has automatic sensor recognition so that after connection and switch on it is immediately ready for use. The temperature and pressure sensors are single channel, but the air flow and humidity sensors are both equipped with a temperature measurement sensor so that the two variables may be followed simultaneously.

Measurement results may be read in the clear 4 digit liquid crystal display. The meter stores continuously the maximum and minimum values measured. The user can also store measurement results in memory (1-255) and the meter will automatically calculate the mean value.







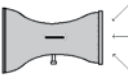
Each time it is switched on the the DM-101 performs automatic self-calibration. The ergonomic design of the meter makes possible 'hands free' working in difficult conditions.

The flexibility and handiness of the DM-101 is extended further by the possibility of producing manually or automatically set time interval reports of measured and calculated values. Use with a miniprinter makes the DM-101 into a completely independent and self-contained measurement station. The printer can be connected to the RS-232C serial port connection and using the arrow push buttons the DM-101 will give a printout at preset time intervals. Manual results may be produced when required by locking the display and pressing the ENTER push button

### TECHNICAL INFORMATION

Display:	4 digit 7-segment LCD, height 12 mm
Sensor connection:	12 pin DIN connector
Peak value memory:	Continuous storage of maximum and minimum values
Mean value calculation	Sample taking principle counter, max. 255 samples
Display lock:	Measurement value held in display by pressing HOLD push button
Measurement precision	0.1% of range $\pm$ 1 number
Printer connection	RS-232C serial bus, 3-pin. Plug in connection
Printer output:	a) instant output with manual control b) defined time output programmable intervals
Case:	Black anodised aluminium case dimensions 79 x 27 x 185 mm (l x w x h), weight 350 g
Batteries:	4 NiCd, 600 mAh, type AA
Mains unit battery charger	230V 50Hz / 9 VDC constant voltage (100 mA) – additional equipment
Carrying case	Plastic case for meter and sensors – additional equipment
Operating temp.:	0...45 °C

### SENSORS

	<b>TAS-2</b> Air flow rate / temperature sensor --ranges 0.05 ... 20.0 m/s -50 ... +150 °C
	<b>THS-2</b> Air humidity / temperature sensor --ranges 0 ... 100 %RH -50 ... +100 °C
	<b>THCS-2</b> Building humidity / temperature sensor --ranges 0 ... 100 %RH -30 ... +70 °C
	<b>PS-2</b> Abs./diff pressure sensor --range 0...1000 Pascal
	<b>T-N2</b> Needle temperature sensor --range 200 ... +450 °C
	<b>T-S2</b> Surface temperature sensor --range -50 ... +200 °C
	<b>MH-300</b> Air volume horn --range 0 ... 300 m <sup>3</sup> /h

### ADDITIONAL EQUIPMENT

<b>CC-100</b>	Carrying case
<b>NP-230/9</b>	Mains battery charge