
PM-80

MANOMETER



OPERATING

INSTRUCTIONS

	OPERATING RANGE	OVER RANGE
mbar	0.00 - 19.99 mbar + 0.0 - 130.0 mbar	1 bar
Pa	0.00 - 13.00 kPa	100 kPa
in H ₂ O	0.00 - 52.28"	402" H ₂ O
m H ₂ O	0.0 - 199.9 mm + 0 - 1320 mm	10.2 m Hg
in Hg	0.00 - 3.83"	29.53" Hg
m Hg	0.00 - 19.99 mm + 0.0 - 97.5 mm	0.75 m Hg
psi	0.00 - 1.88 psi	14.5 psi

Particular care should be taken not to over pressure the device as this may rupture the sensor membrane. This is not covered by the manufacturers warranty.

NOTE: The differential/gauge instruments will only measure positive pressures i.e. positive pressure applied to the positive port, or negative pressure applied to the negative port.

INSTRUMENT APPLICATION


The range of PM instruments are suitable for gauge and differential measurements over a wide range of pressures. They are not suitable for use with corrosive substances or cyclic hydrocarbons, e.g. motor oil, transmission fluid and freon.

To use the PM with these components, isolation must be provided in the form of a buffer, such as a mineral oil or dry air.

INSTRUMENT OPERATION

BATTERIES


Two AA or equivalent cells (not supplied). Follow instructions on reverse of instrument for fitting/replacement.

When  symbol appears on display, replace batteries.

IP65/IP67 RATING

The waterproof rating for this product will not be maintained unless the screws holding the battery compartment are firmly tightened when inserting or replacing batteries.

ON - OFF

Press **ON** key for on and **OFF** key for off. Automatic switch-off after 12 minutes, unless any key is activated. If  key is held when unit is switched on, automatic switch-off function will be disabled until the unit is switched off.

BACKLIGHT

Press and hold **ON** key.

OUT OF RANGE

If pressure exceeds the scale range **Out** will appear on the display.

ZEROING

In order to achieve maximum accuracy it is recommended to zero the instrument in the orientation it will be used before taking any measurements.

DISPLAY HOLD

Pressing  key freezes the display. The  symbol will appear on the display. Press  key again to return to normal display.

HAND PUMP OPERATION (if applicable)

Use the **T** piece to connect the hand pump to the instrument's **+** port and to the equipment being tested. Exhaust the system by turning the release valve on the hand pump anti-clockwise and set the fine adjustment threaded piston to mid range.


Close the release valve and apply pump action to the hand pump piston to generate the required approximate pressure. Fine adjustment of the desired pressure can then be made by rotating the threaded piston. The release valve may be used to vent the system.

Note: The hand pump is capable of generating 7bar max. It is, therefore, essential that extra care is taken not to over-pressure the instrument.

SMOOTHING MODE

Press **=** key and the instrument continuously averages the last four measurements to give a more stable reading on the display. Press **=** key again to return to normal measurement.

UNITS OF PRESSURE

Press  key to select required units of pressure. Chosen units will be saved when the instrument is switched off. Please refer to the table.

INSTRUMENT ACCURACIES

Over temperature range -10°C to $+50^{\circ}\text{C}$ is 0.2% of reading +0.2% of full scale + 1 digit.

The overall performance of the instrument is obtained by combining the stated accuracy and any uncertainty due to the measurement process.

WARRANTY

This instrument has been carefully assembled and tested, and is warranted against faulty workmanship and materials for two years from the date of purchase. During the warranty period any defective instrument will be repaired or replaced at the discretion of the manufacturer. This warranty does not cover damage or failure resulting from misuse or accident.

Modification, adjustment or any alteration with the internal arrangement of the instrument shall absolve the manufacturer from any liability in respect of the instrument.

Any instrument to be repaired should be forwarded to the supplier, carriage paid and at the owner's risk. A brief description of the fault should be included.

For further information about your local distributor contact:

DIGITRON

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TEST RESULTS

This instrument has been tested using a calibrated dead weight system:

Model: Serial No:

This instrument has been tested in:

Tested by:

INPUT	READING