

**MODEL 58-FMC
FLOW METER CALIBRATOR
INSTRUCTION MANUAL**



SUBJECT TO CHANGE WITHOUT NOTICE

This manual superseded all previous versions – please keep for future reference

DIRECTIONS FOR USING THE FLOW CALIBRATOR 58-FMC

- Connect the Quick Connect to the high pressure port of DP Transmitter under calibration.
- Leave the low pressure port of the transmitter open to atmosphere.
- Connect the output from the transmitter through required power supply to an accurate digital multimeter.
- Divide the range of the transmitter into five equal divisions, example 6000 mm WC =0, 1500 mmWc -25%, 3000 mmWC – 50%, 4500 mmWC – 75% and 6000 mmWC – 100%.
- Check the Zero output of the transmitter without giving any pressure to the HP and LP side.
- Give 6000 mmWC (full span 100%) to the HP side, check output correct span if required. Check zero for any shift and correct if necessary.
- Close the return valve of the squeeze bulb and pump pressure using the squeeze bulb to 25% (eg. 1500 mmWC) check the output.
- Go on in steps of 25% to check intermittent calibration.
- Once again check zero and span for any shift or error.
- Tabulate readings for future reference.

KEY FUNCTIONS

- ON/OFF : Using this key you can switch the gauge 'ON' and Turn 'OFF'.
- MIN/MAX : It displays MIN/MAX pressure values.
- CLEAR : This clears the previously stores min/max values.
- ENGG UNITS : Using this key you can toggle through the different pressure Engineering units.

POWER & PRESSURE CONNECTION

- POWER : 7.5 VDC internal alkaline battery AA size (5x1.5).
- PRESSURE CONNECTION : ¼" BSP Male

PRESSURE RANGES AVAILABLE

- : (-) 1000mmWC, (-) 1000mmWC
 - : 0 to 1000mmWC
 - : 0 to 5000mmWC
 - : 0 to 6000mmWC
 - : 0 to 7500mmWC
 - : 0 to 10000mmWC
 - : 0 to 30000mmWC
 - : 0 to 35000mmWC
- Custom built ranges available upto 350000mmWC

PROCEDURE FOR CHANGING PASSWORD

- Switch on the gauge & immediately Press the FnS key.
- Password '00000' (factory set password) is displayed.

00000

- Press 'Up' key when 'CAL' is displayed.
- 'PASC' will be displayed.

PASC

- Press enter when the above is displayed.
- 'nEuPS' is displayed as follows.

nEuPS

- Press enter when the above is displayed.
- Enter the new password using shift & up keys.
- Press enter.
- Display will return to 'PASC' display.
- Press Fns key to return the gauge to normal operation.

WARNING

Severe injuries can occur through improper use of pressure instruments. Do not exceed the recommended pressure limits of tubing and fittings. Never disconnect pressure instrument without relieving the system pressure first. Never insert any object into the pressure connection. The sensor diaphragm is very thin and will be damaged or destroyed by solid or sharp objects.

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