



Digital Test Pressure Gauge


MGA N32-2

INTRODUCTION

The MGA N32-2 combines the high accuracy of digital electronics with the convenience and ease of use of an analog test gauge. With accuracy of $\pm 0.05\%$ FS, the MGA N32-2 can be used as a calibration reference, or in applications where high accuracy pressure measurement is required.

Many user configurable functions have been designed into the MGA N32-2 including ZERO and MIN/MAX. Once the gauge is configured, settings can be locked and password protected to prevent unauthorized changes to the configuration.

DISPLAY AND CONTROLS



1 ON OFF Turns the gauge 'ON' or switches it 'OFF'.

2 UNITS CAL Using this key you can toggle through the different pressure scales (**Kg/cm²**, **BAR**, **PSI**, **KPa**, **InHg**, **InWc**, **mmHg**, **mmWc**, **Pascal**). The availability of scales depends on the maximum range.

3 ZERO In open input condition this key will set display to zero.

4 Min Max CLR This key displays **MIN/MAX** pressure values.

5 ESC CAL This key lets the user enter the calibration mode.

SPECIFICATION

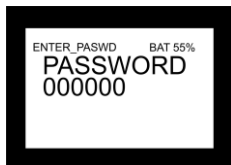
Display	Large Graphic Display (128 x 64) with backlight.
Accuracy	± 0.05 % FS
Power	7.5 VDC internal alkaline battery AAA size (5X1.5) Pre installed. Battery Life 600 hours
Low Battery	Battery life displayed in %
Over Pressure Protection	125 % of specified range
Types of Pressure & Media Compatibility	Gauge, Absolute and Compound Non corrosive dry gases or liquid compatible with SS 316 stainless steel
Available Standard Engineering Units	kg/cm ² , bar, psi, kPa, inHg, inWc, mmHg, mmWc, mbar, Pascal Refer resolution table for further details
Environmental	Storage : 20 °C to + 70 °C Operating : 25 °C to + 45 °C
Pressure Connection	¼ " BSP Male (Other on request)
Housing	Aluminium anodized case size 91mm (dia) x 34mm(d)

CALIBRATION

Calibration adjustment of MGA N32-2 is performed electronically via internal software with case closed. There are no mechanical adjustments. All commands and adjustments are done via the key pad using display to guide the user through calibration procedure.

PRESSURE CALIBRATION

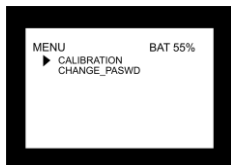
(Dead weight pressure source recommended)



1

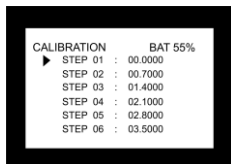
There are total 15 steps for Pressure Calibration.

- Switch on the gauge & press the **CAL** key.
- Password '00000' (factory set password) is displayed.



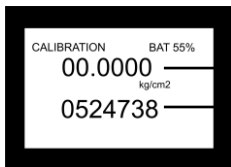
2

- Press enter key, the gauge will display a menu.
- Select 'CALIBRATION' using the enter key.



3

- Steps are displayed of the various to be applied.
- Select the steps and apply that pressure (in) Press enter key, the gauge will display a menu
- Select 'CALIBRATION' using the enter key.
- Steps are displayed of the various to be applied.
- Select the steps and apply that pressure (in)

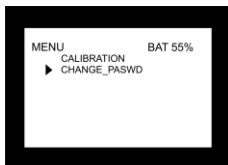
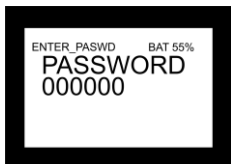


Applied Pressure

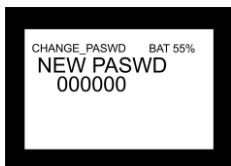
Sensor Output

- Observe the sensor output and press enter after it is steady. Repeat the steps for all the displayed 15 pressure points.
- The procedure will come to an end after pressing enter on the last point .
- Press **ESC** key twice to return the gauge to normal operation & validate the calibration.

CHANGE PASSWORD



- Switch on the gauge & immediately Press & hold the **CAL** key.
- Password '00000' (factory set password) is displayed. (Pg 1)



- Select '**CHANGE_PASWD**' using down key, and press enter. (fig 2)
- Set the new password (fig 3) using shift and up/down key.
- Press enter after setting new password
- Press esc to return to normal mode.

WARNING Severe injuries can occur through improper use of pressure instruments. Do not exceed recommend pressure limits of tubing and fittings. Never disconnect pressure instrument without first relieving the system pressure. 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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