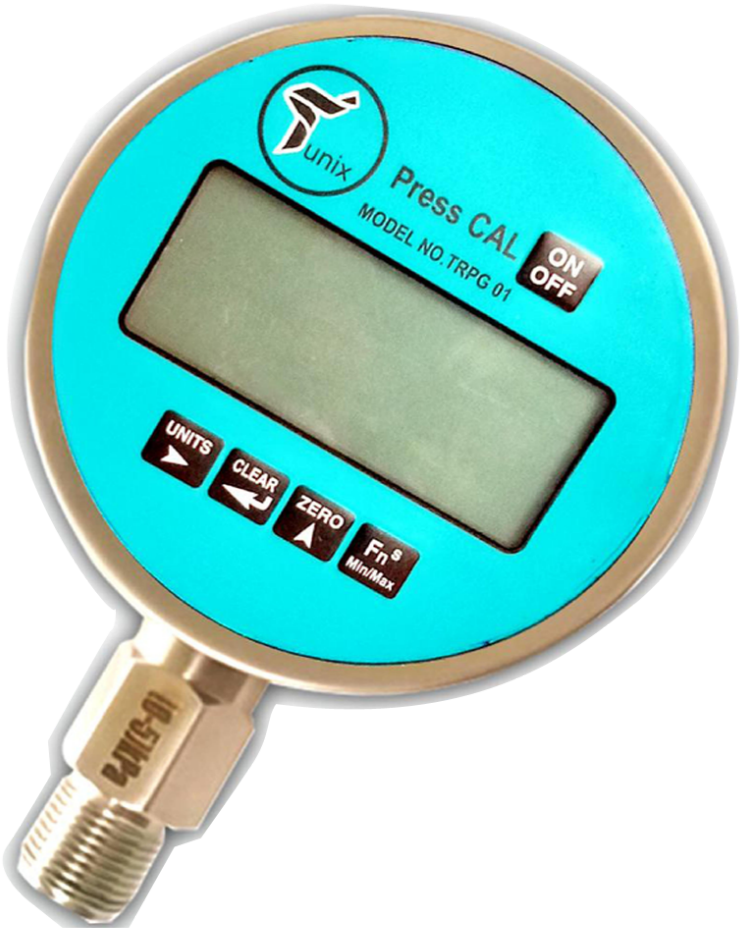
Digital Reference Grade Pressure Indicator /Gauge Pressure Indicator

TRPG-01B Instrument Manual



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PREFACE

Welcome & thanks for purchasing Our Digital Reference Grade Pressure Indicator /Gauge Model No-TRPG-01B, Our high Accuracy pressure measurement instrument.
Please refer Technical specifications & instructions carefully before using the product.

STANDARED ACCESSORIES

Please check for following Standard accessories/Observation

1) Product is not physically damaged.
2) Operating manual With Warranty certificate
3) Silicon pressure tubes
5) Carrying Bag.

TECHNICAL SPECIFICATION

1. Display: 7 segments 5 full digit high contrast customized LCD display.
2. Accuracy: ± 0.1 % FS.
3. Power: 7.5 VDC internal alkaline battery AA size (5X1.5) Pre-installed, Battery Life 600 hours.
4. Over Pressure Protection: Indicator is displayed near the end of battery life.
5. Types of Pressure & Media Compatibility: Gauge, Absolute and Compound Non-corrosive dry gases or liquids compatible with SS 316 stainless steel
6. Available Standard Engineering Units: kg/cm2, bar, psi, kPa, inHg, in Wc, mmHg, mmWc, mbar, Pascal Refer resolution table for further details.
7. Environmental Condition:

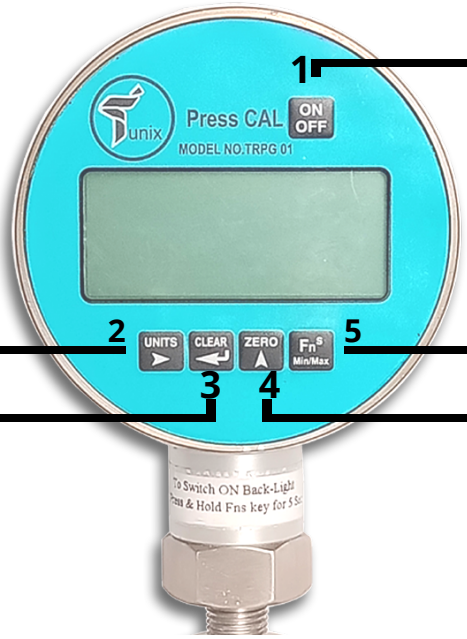
   Storage : 20°C to + 70°C

   Operating : 25°C to + 45°C
8. Pressure Connection: ¼ “ BSP Male (Other on request)
9. Housing: Plastic Moulded Box 91mm (dia) x 34mm(d).

The TRPG-01B combines the high accuracy of digital electronics with the convenience and ease of use of an analog test gauge. With accuracy of ± 0.1 % FS, the TRPG-01B 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 TRPG-01B 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 CONTROL



2 Using this key you can toggle through the different pressure scales 2 (**Kg/cm , BAR, PSI, KPa, In Hg , In Wc , mm Hg , mm Wc , Pascal**) . The availability of scales depends on the maximum range.

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

5 This key displays **MIN/MAX** pressure values.

By this key gauge clears 3 previously stored min/max values.

4 In open input condition this key will set display to zero

CALIBRATION

Calibration adjustment of TRPG -01B 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)

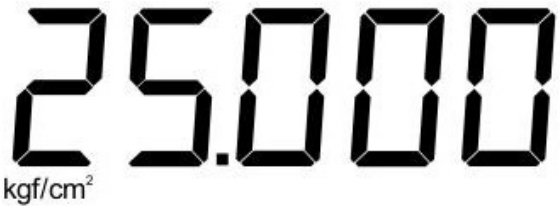
There are total 8 steps for Pressure Calibration.

- Switch on the gauge & immediately Press the Fn key.
- Password ‘00000’ (factory set password) is displayed.

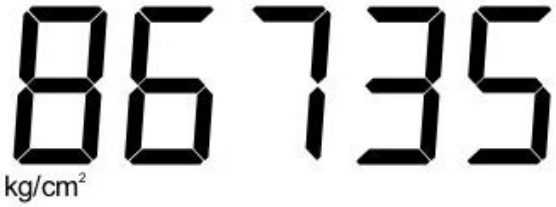
- Press enter key, the gauge will enter calibration mode
- CALI’ is displayed.

- Press Enter
- The pressure is to be applied in “kg/cm ” only.
- Apply the displayed pressure and press enter.
- Observe the sensor output & press enter after it is steady.
- Repeat the above steps for all the displayed eight pressure points.
- The procedure will come to an end after pressing enter on the last pressure point.
- Press **Fn** key to return to the gauge to normal operation & validate the calibration.

EXAMPLE



Pressure to be applied in kg/cm . Press enter after applying the pressure.
kg/cm2



Counts displayed, press enter only after they are steady. The next step will be shown.
Continue in this manner.

CHANGE PASSWORD

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

- Press enter key, the gauge will enter calibration mode
- '**CALI**' is displayed

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

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

- 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.

RESOLUTION TABLE

Units / Range	kg/cm^2	BAR	PSI	kPascal	inHg	mmHg	inH_2O	mBAR	mmH_2O
2 kg/cm^2	0.0001	0.0001	0.001	0.01	0.01	0.1	0.1	0.1	1
7 kg/cm^2	0.0001	0.0001	0.001	0.01	0.01	0.1	0.1	0.1	1
10 kg/cm^2	0.001	0.001	0.01	0.1	0.1	1	1	1	—
20 kg/cm^2	0.001	0.001	0.01	0.1	0.1	1	1	1	—
35 kg/cm^2	0.001	0.001	0.01	0.1	0.1	1	1	1	—
70 kg/cm^2	0.001	0.001	0.01	0.1	0.1	1	1	1	—
100 kg/cm^2	0.01	0.01	0.1	1	1	—	—	—	—
200 kg/cm^2	0.01	0.01	0.1	1	1	—	—	—	—
350 kg/cm^2	0.01	0.01	0.1	1	1	—	—	—	—
400 kg/cm^2	0.01	0.01	0.1	1	1	—	—	—	—
700 kg/cm^2	0.01	0.01	0.1	1	1	—	—	—	—
1000 kg/cm^2	0.1	0.1	1	—	—	—	—	—	—

										Pa
200 mmWC	—	—	0.0001	0.0001	0.0001	0.001	0.001	0.001	0.01	0.1
2000 mmWC	0.00001	0.00001	0.0001	0.001	0.001	0.01	0.01	0.01	0.1	1