



Digital Test Pressure Gauge

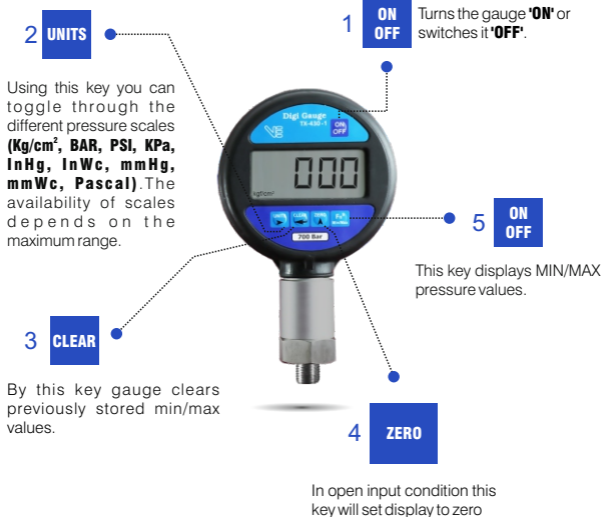
Digi Gauge TX-430 1

INTRODUCTION

The TX 430 combines the high accuracy of digital electronics with the convenience and ease of use of an analog test gauge. With accuracy of $\pm 0.1\%$ FS, the TX 430 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 TX 430 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



SPECIFICATION

Display	7 segment 5 full digit high contrast customized LCD display
Accuracy	± 0.1 % FS
Power	7.5 VDC internal alkaline battery AA size (5X1.5) Pre installed. Battery Life 600 hours.
Low Battery	Indicator is displayed near the end of battery life
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, in Wc, 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	Plastic Moulded Box 91mm (dia) x 34mm(d)

CALIBRATION

Calibration adjustment of TX 430 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.

00000

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

CALI

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

- Press Enter
- The pressure is to be applied in "kg/cm²" 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^s** key to return to the gauge to normal operation & validate the calibration.

Example

25.000

kg/cm²

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

86735

kg/cm²

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

CHANGE PASSWORD

00000

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

CALI

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

PASC

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

nEuPS

- 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.

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.

RESOLUTION TABLE

Units Range	kg/cm ²	BAR	PSI	KPascal	inHg	mmHg	inH ₂ O	mBAR	mmH ₂ O
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	—	—	—	—	—	—

For low Pressure

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



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