Digital Pressure Gauge

Product introduction:

1. This instrument is a professional high precision, high range, high resolution, large screen display with imported pressure sensor, high precision ADC and low power MCU designed.
2. Quickly measure the pre-blue detection pressure value (relative to the current atmospheric pressure). Dual channel can simultaneously detect the pressure difference between two detection ports (P1P2).
3. Digital differential pressure gauge can also be used for temperature measurement.

Product use：

This product is widely used in natural gas pipelines, air-conditioning refrigeration and ventilation systems, mechanical hydraulics, plastic molding, ceramic products, biopharmaceutical molding, mining area pressure detection, petrochemical refining, gas, liquid, and production industrial equipment pressure detection.

Basic function：

1. ℃/℉ display
2. ℃/℉ conversion
3. Pressure value display
4. Hold data mode
5. Data storage function
6. Data search function
7. Maximum minimum data mode
8. Automatic shutdown function

Specification:

Unit of measurement	Psi, kg-cm^2 , Ozin^2 ,bar , mbar, kPa
	inHg, mmHg, inH2O, ftH2O, cmH2O, Pa
Accuracy	±0.3% FSO
Repeatability	±0.2% (MAX±0.5%FSO)
Linearity/Hysteresis	±0.29%FSO
Measurement rate	0.5 s
Data storage	100groups
Low battery indicator	6.8V show low battery symbol
Automatic shutdown conditions	No operation for 15 minutes
Positive pressure range alert	Err0
Over negative pressure range alert	Err1
Working temperature	0~50℃（32~122℉）
Power supply	9V Dry cell, 6F22 (Default)
	3.7V 1100mAh rechargeable Li-polymer battery (Optional)
Device dimension	164X71X35mm
Gross Weight	300g

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Units and resolution：

No.	TC-169A		TC-168A	
Unit	Range	Resolution	Range	Resolution
kPa	±689.4	0.1	±20.68	0.001
Psi	±100	0.01	±2.999	0.001
Kg-cm^2	±7.030	0.001	±0.210	0.001
Ozin^2	±1600	1	±47.99	0.01
Bar	±6.894	0.001	±0.206	0.001
mbar	±6894	1	±206.8	0.1
inHg	±203.6	0.1	±6.106	0.001
mmHg	±5171	1	±151.1	0.1
InH2O	±2767	1	±83.02	0.01
ftH20	±227.2	0.1	±6.918	0.001
cmH2O	±7030	1	±210.8	0.1
Pa	Not available	Not available	±9999	1

Product description:

1. Power on/off Button
2. ºC/ºF Button
3. HOLD Button
4. UNITS Button
5. DIF Button
6. MAX Button
7. LCD Display
8. Tube Connector (+)
9. Tube Connector (-)
10. Label position
11. Battery Cover

Key description:

1. POWER KEY:
   a. Short press to turn on
   b. Short press to turn on and turn off the backlight
   c. Long press to turn off (Automatic shutdown in 15 minutes without any operation)

2. ℃/℉ KEY:
   a. Short press to store the current measured pressure value (can store up to 100 groups)
   b. Long press to exit the storage mode
   c. Press and hold for more than 2 seconds to switch the ℃/℉ unit

3. HOLD KEY:
   a. Press to lock and hold the current data.
   b. Press and hold for more than 2 seconds to clear the drift zero. (The data before measurement does not return to zero)

4. UNITS KEY:
   a. Short press to switch up to 12 pressure units.
   b. Press and hold for more than 2 seconds to clear the stored data.

5. DIF KEY:
   a. Short press to view stored data up
   b. Press and hold for more than 2 seconds to enter p1 and P2 dual channel differential pressure mode
   c. DIF mode: Press and hold for more than 2 seconds to exit differential pressure mode

6. MAX KEY
   a. Short press to view stored data
   b. Press and hold for 2 seconds to enter the maximum and minimum mode
   c. Press and hold for more than 2 seconds to return to the normal measurement mode

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Precautions:

1. When the meter is working, keep it away from vibration sources and strong electromagnetic fields, and environmental locations with drastic temperature changes, so as not to be interfered and cause inaccurate measurement data.

2. When measuring corrosive and toxic gases or liquids, please take precautionary measures to avoid danger or damage to the instrument.

3. Please replace the battery in time when the meter shows a low battery level and remove the battery when it is not used for a long time to avoid battery leakage and damage to the meter.

4. When measuring the pressure input maximum value please do not exceed the scope of the instrument measurement.

5. When measuring the pressure of a single channel, please do not block the other channel, and do not face the place with wind or strong airflow.
Currently, the meter displays the difference between the current measurement port and the atmospheric pressure.

6. When the screen shows over range during measurement, please disconnect the vent hole. The displayed data will automatically return to normal. (Pa units can only be displayed up to 9999, adjustable to kPa units)

7. Before connecting to the trachea, please press and hold the hold button to clear the zero drift to ensure accurate measurement data.