

[Manuals.plus](#) /

› [DANOPLUS](#) /

› DANOPLUS Digital Manometer User Manual

DANOPLUS DP-103

DANOPLUS Digital Manometer User Manual

Model: DP-103

1. PRODUCT OVERVIEW

The DANOPLUS Digital Manometer is a professional gas pressure tester designed for high accuracy measurements across 12 selectable units. It is ideal for various applications including HVAC systems, gas measurement, pneumatic control, and laboratory testing. This device features a large LCD display with backlight, data record function, and capabilities for measuring differential, positive, and negative pressure.



Figure 1: DANOPLUS Digital Manometer and included accessories.

2. WHAT'S IN THE BOX

- 1 x Manometer
- 2 x 19.6" Tubes (50cm length)
- 1 x 1/8" Connector
- 3 x AAA batteries

DISPLAY INTERFACE



Figure 2: All components included in the product package.

3. PRODUCT FEATURES

- **High Accuracy:** Measurement range: ± 2.000 psi; Accuracy: $\pm 0.3\%$ FSO (at 25°C); Response Time: 0.5Seconds; Repeatability: $\pm 0.2\%$ (Max $\pm 0.5\%$ FSO); Linearity/Hysteresis: $\pm 0.29\%$ FSO.
- **12 Selectable Units:** Easily toggle between Psi, kPa, Pa, Kgfc m^2 , ozin ^{2} , Bar, mbar, inHg, mmHg, inH $_2$ O, ftH $_2$ O, and cmH $_2$ O.
- **Data Record:** Records up to 99 data points with time stamps for easier analysis.
- **Multi-Functional:** Measures differential pressure, positive and negative pressure. Includes Data Hold, MAX/MIN/Average functions.
- **User-Friendly Display:** Large LCD backlight for clear readings, Low battery Alarm, Auto Power Off Functions.



Figure 3: Key features of the DANOPLUS Digital Manometer, including large LCD, data record, 12 units, differential measurement, MAX/MIN/AVG, data hold, low battery indicator, and auto power off.

4. SETUP GUIDE

4.1 Battery Installation

1. Locate the battery compartment on the back of the manometer.
2. Slide open the battery cover.
3. Insert 3 AAA batteries, ensuring correct polarity (+/-).
4. Close the battery cover securely.

12 SELECTABLE UNITS



FUNCTION	RANGE	RESOLUTION
Pa	±9999	1
psi	±2.000	0.001
kgfcm ²	±0.140	0.001
bar	±0.137	0.001
inH ₂ O	±55.40	0.01
ftH ₂ O	±4.613	0.001
inHg	±4.070	0.001
mmHg	±103.4	0.1
ozin ²	±32.00	0.01
mbar	±137.8	0.1
cmH ₂ O	±140.6	0.1
kPa	±13.78	0.01

Figure 4: Rear view of the manometer, highlighting the battery compartment and tube connectors.

4.2 Tube Connection

1. Identify the P1 (+) and P2 (-) tube connectors at the top of the manometer.
2. Connect the provided rubber tubes to these connectors. Ensure a snug fit to prevent leaks.
3. If using the 1/8" connector, attach it to one end of a rubber tube.

Your browser does not support the video tag.

Video 1: A tutorial demonstrating the unboxing, battery installation, and tube connection for the DANOPPLUS Digital Manometer. This video also shows basic operation and unit selection.

5. OPERATING INSTRUCTIONS

5.1 Power On/Off

Press the **Power button** (labeled with a power symbol) to turn the device on or off.

5.2 Unit Selection

Press the **UNIT button** to cycle through the 12 available pressure units: Psi, kPa, Pa, Kgfcmm², ozin², Bar, mbar, inHg, mmHg, inH₂O, ftH₂O, and cmH₂O. The selected unit will be displayed on the LCD.



Figure 5: Detailed table of selectable units, their measurement ranges, and resolutions.

5.3 Measuring Pressure

Connect the tubes to the pressure source. The manometer will display the pressure reading. For differential pressure, connect one tube to P1 (+) and the other to P2 (-). For positive or negative pressure, connect the single tube to the appropriate port.

5.4 Data Hold, MAX/MIN/AVG

- Press the **HOLD button** to freeze the current reading on the display. Press again to release.
- Use the **MODE button** to cycle through MAX (maximum), MIN (minimum), and AVG (average) readings recorded during a measurement session.

5.5 Data Record Function

The device can record up to 99 data points with time stamps. Refer to the detailed user manual (PDF link below) for specific instructions on initiating and reviewing data records.



Figure 6: The manometer display indicating the data record function, showing elapsed time and total number of records.

6. MAINTENANCE

- Keep the device clean and free from dust and debris. Use a soft, dry cloth for cleaning.
- Avoid exposing the manometer to extreme temperatures or humidity.
- Remove batteries if the device will not be used for an extended period to prevent leakage.
- Store the manometer in its carrying bag to protect it from damage.

7. TROUBLESHOOTING

7.1 Device Not Turning On

- Check if the batteries are inserted correctly with the proper polarity.
- Replace the batteries with new ones if they are depleted.

7.2 Inaccurate Readings / Won't Zero Out

- Ensure tubes are securely connected and there are no leaks.
- Verify that the tubes are not kinked or obstructed.
- Perform a zero-adjustment if available (refer to the full user manual for specific steps).

- Ensure the device is at a stable temperature before taking readings.

8. SPECIFICATIONS

Specification	Value
Product Dimensions	6.5 x 2.76 x 1.3 inches
Item Model Number	DP-103
Batteries Required	3 AAA batteries
Material	Acrylonitrile Butadiene Styrene (ABS)
Item Weight	7 Ounces
Screen Size	165 Millimeters
Measurement Range	±2.000psi
Accuracy	±0.3%FSO (at 25°C)
Response Time	0.5 Seconds
Repeatability	±0.2% (Max ±0.5%FSO)
Linearity/Hysteresis	±0.29%FSO

9. WIDE APPLICATIONS

This high-quality manometer is suitable for various gas measurement systems, including:

- Measuring air and ventilation systems.
- Calibrating and troubleshooting gas pressure systems.
- HVAC (Heating, Ventilation, and Air Conditioning) applications.
- Gas appliance repair and installation.
- Laboratory testing.
- Pneumatic control systems.



Figure 7: Examples of the DANOPPLUS Digital Manometer in use across different industrial and scientific applications.

10. WARRANTY AND SUPPORT

For detailed warranty information and technical support, please refer to the official user manual or contact DANOPPLUS customer service. A digital version of the user manual can be accessed via the following link:

[Download User Manual \(PDF\)](#)