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› WapoRich E2-QX1201 Digital Dual-Port Manometer User Manual

## WapoRich E2-QX1201

# WapoRich E2-QX1201 Digital Dual-Port Manometer User Manual

Model: E2-QX1201

## 1. INTRODUCTION

The WapoRich E2-QX1201 is a professional dual-port digital manometer designed for accurate measurement of air and gas pressure, including differential pressure. It features a large LCD display with backlight, 12 selectable units, data storage, and automatic power-off for convenience and efficiency. This manual provides essential information for the safe and effective use of your manometer.

### 1.1 Package Contents

- WapoRich E2-QX1201 Digital Manometer
- Flexible Tubing (2 x 25cm length, 4mm diameter)
- 1/8 inch Hose Adapter
- 9V Battery
- User Manual



Figure 1.1: WapoRich E2-QX1201 Digital Dual-Port Manometer. This image shows the main unit with two clear flexible hoses connected to its input ports.

## 1.2 Applications

This manometer is suitable for a variety of applications, including:

- HVAC system testing
- Clean room monitoring
- Air conditioning and ventilation system diagnostics
- Furnace and boiler pressure checks
- Blower and fan performance evaluation
- Laboratory testing

# PORTABLE AND MULTI-FUNCTIONAL



Figure 1.2: Common applications for the digital manometer, including HVAC, clean rooms, and laboratory use.

## 2. SAFETY INFORMATION

Please read and understand all safety instructions before operating the device. Failure to follow these instructions may result in injury or damage to the device.

- Do not exceed the maximum pressure rating of the device.
- Ensure all connections are secure before applying pressure.
- Do not use the device in environments with flammable or explosive gases unless specifically rated for such use.
- Keep the device dry and clean. Avoid exposure to extreme temperatures or direct sunlight.
- Replace the battery promptly when the low power indicator appears to ensure accurate readings.

## 3. PRODUCT FEATURES

- **Intelligent Dual Input:** Measures differential pressure with high resolution and accuracy.
- **Durable Construction:** Made from ABS material for excellent high-temperature resistance and impact resistance.
- **Large LCD Display:** Features a 4.45CM x 4.95CM display with backlight for clear readability in various lighting conditions.
- **Data Recording and Holding:** Stores up to 100 groups of data and includes a data hold function.
- **12 Selectable Units:** Supports mmHg, inHg, ftH<sub>2</sub>O, cmH<sub>2</sub>O, inH<sub>2</sub>O, Pa, KPa, mbar, bar, psi, Kgcm<sup>2</sup>, and ozin<sup>2</sup>.
- **Zeroing Function:** Allows for easy and accurate calibration of readings.
- **Automatic Power OFF:** Device automatically shuts off after approximately 15 minutes of no operation to conserve battery life.
- **Low Power Indicator:** Alerts when battery replacement is needed.
- **Quick Response:** Provides measurements with a 0.5-second response time.
- **Temperature Unit Switch:** Allows switching between Fahrenheit and Celsius degrees.



Figure 3.1: The manometer's durable ABS construction and clear LCD display with backlight.

## 4. SETUP

### 4.1 Battery Installation

1. Locate the battery compartment cover on the back of the manometer.
2. Slide or unclip the cover to open it.
3. Insert the provided 9V battery, ensuring correct polarity (+/-).
4. Close the battery compartment cover securely.

### 4.2 Connecting Hoses

The manometer features two input ports for pressure measurement, labeled P1 (+) and P2 (-).

1. Connect the flexible tubing (4mm diameter) to the desired input ports (P1 or P2) on the top of the device.
2. If using the 1/8 inch hose adapter, attach it to one end of the flexible tubing before connecting to the pressure source.
3. Ensure all connections are tight to prevent leaks, which could affect measurement accuracy.

# DUAL-PORT MANOMETER HANDHELD

TUBE CONNECTOR (+) & TUBE CONNECTOR (-)

Areas(p1-p2).



Figure 4.1: Detail of the dual-port connections (P1 and P2) and the flexible tubing.

## 5. OPERATING INSTRUCTIONS

Familiarize yourself with the button layout and functions before operation.



Figure 5.1: Front view of the manometer with key components and button functions labeled.

## 5.1 Power ON/OFF

- Press the **Power** button (  ) to turn the device ON.
- Press and hold the **Power** button to turn the device OFF. The device will also automatically power off after 15 minutes of inactivity.

## 5.2 Unit Selection

- Press the **UNITS** button to cycle through the 12 available pressure units: mmHg, inHg, ftH<sub>2</sub>O, cmH<sub>2</sub>O, inH<sub>2</sub>O, Pa, KPa, mbar, bar, psi, Kgcm<sup>2</sup>, and ozin<sup>2</sup>.
- The selected unit will be displayed on the LCD screen.

# 12 MEASURE UNIT CONVERSIONS

mmHg inHg ftH<sub>2</sub>O cmH<sub>2</sub>O inH<sub>2</sub>O Pa KPa mbar bar psi Kgcm<sup>2</sup> ozin<sup>2</sup>



- ▶ **Measurement Range: 20.68 KPa/+2.999 PSI**
- ▶ **Measurement Accuracy: +0.3% FSO(25°C)**
- ▶ **Measurement Rate: 0.5s**

Figure 5.2: The manometer supports 12 different measurement units for versatility.

## 5.3 Differential Pressure Mode (DIF)

- Press the **DIF** button to enter or exit differential pressure measurement mode.
- In this mode, the device displays the pressure difference between P1 and P2 (P1-P2).

## 5.4 Maximum/Minimum Mode (MAX/MIN)

- Press the **MAX** button to display the maximum pressure reading recorded since the mode was activated.
- Press the **MAX** button again to display the minimum pressure reading.
- Press a third time to return to real-time measurement.

## 5.5 Data Hold (HOLD)

- Press the **HOLD** button to freeze the current reading on the display.

- Press **HOLD** again to release the reading and return to real-time measurement.

## 5.6 Zeroing Function

- Before taking a measurement, especially for sensitive applications, place the manometer on a stable surface.
- Ensure both input ports are open to atmospheric pressure or connected to a known zero-pressure source.
- Press the **ZERO** button (often integrated with another button, refer to device markings) to reset the display to zero. This compensates for any minor sensor drift.

## 5.7 Temperature Unit Switch

- Press the **°C/°F** button to switch the displayed temperature unit between Celsius and Fahrenheit.

# 6. MAINTENANCE

## 6.1 Cleaning

- Wipe the device with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- Ensure the device is completely dry before storage or next use.

## 6.2 Battery Replacement

- When the low power indicator appears on the display, replace the 9V battery as described in Section 4.1.
- Remove the battery if the device will not be used for an extended period to prevent leakage.

## 6.3 Storage

- Store the manometer in a cool, dry place, away from direct sunlight and extreme temperatures.
- Keep the device in its protective packaging or a suitable case to prevent damage.

# 7. TROUBLESHOOTING

| Problem                         | Possible Cause                                         | Solution                                                                                                |
|---------------------------------|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| Device does not power on        | Dead or incorrectly installed battery                  | Replace the 9V battery or check its polarity.                                                           |
| "Err0" or "Err1" displayed      | Over-range or under-range pressure detected            | The applied pressure exceeds the device's measurement limits. Reduce pressure or use a different gauge. |
| Inaccurate or drifting readings | Device not zeroed; unstable surface; leaky connections | Perform the zeroing function on a stable surface. Check all hose connections for leaks.                 |
| Low battery indicator           | Battery is low                                         | Replace the 9V battery immediately.                                                                     |

# 8. SPECIFICATIONS

| Parameter                | Value                                        |
|--------------------------|----------------------------------------------|
| Model                    | E2-QX1201                                    |
| Measurement Range (kPa)  | ±20.68 kPa                                   |
| Resolution (kPa)         | 0.001 kPa                                    |
| Measurement Range (Psi)  | ±2.999 Psi                                   |
| Resolution (Psi)         | 0.001 Psi                                    |
| Accuracy                 | ±0.3%FSO (at 25°C)                           |
| Repeatability            | ±0.2% (MAX ± 0.5%FSO)                        |
| Linearity / Hysteresis   | ±0.29%FSO (at 25°C)                          |
| Response Time            | 0.5 seconds                                  |
| Power Type               | 9V Battery                                   |
| Automatic Power Off      | After approximately 15 minutes of inactivity |
| Data Storage             | 100 groups                                   |
| Hose Adapter Thread Size | 1/8 inch                                     |
| Flexible Tubing Diameter | 4mm                                          |
| Flexible Tubing Length   | 25cm                                         |
| Device Dimensions        | 164 x 70 x 32 mm (6.5 x 2.8 x 1.3 inches)    |
| Item Weight              | 200g (7.05 ounces)                           |
| Material                 | Acrylonitrile Butadiene Styrene (ABS)        |



Figure 8.1: Physical dimensions of the WapoRich E2-QX1201 manometer and included tubing.

## 9. WARRANTY AND SUPPORT

WapoRich is committed to providing high-quality products and excellent customer service.

- **Quality Warranty:** Your WapoRich E2-QX1201 manometer comes with a 365-day quality warranty.
- **Customer Service:** We offer 24-hour friendly customer service to assist with any inquiries or issues.
- **Technical Support:** Benefit from lifetime technical support for your product.

For support, please refer to the contact information provided with your purchase or visit the official WapoRich store online.

## Why WapoRich ?



### 24Hours

Friendly Customer Service



### 365 Days

Quality Warranty



### 99999 +

Lifetime Tech Support

Figure 9.1: WapoRich commitment to customer satisfaction and product support.

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