Fieldpiece SDMN5

Fieldpiece SDMN5 Dual-Port Manometer Instruction Manual

Brand: Fieldpiece

Product Overview

The Fieldpiece SDMN5 Dual-Port Manometer is a portable and rugged instrument specifically designed for HVAC/R field service technicians. It is engineered to accurately measure gas pressure, static pressure, and pressure differential, providing essential data for system diagnostics and balancing.



Image: Fieldpiece SDMN5 Dual-Port Manometer, showing its yellow and black casing with a digital display and control buttons.

Key features of the SDMN5 include:

- Dual ports for simultaneous pressure measurements (P1 and P2).
- Ability to calculate pressure differential (P1-P2).
- A zero adjust button on the meter's face for easy calibration.
- A rugged rubber boot for enhanced durability and grip.
- An integrated magnet on the back for convenient hands-free operation during service.
- Auto Power-Off (APO) function to conserve battery life.
- Measurement range between -60inWC and 60inWC (Inches of Water Column) and -150.0 to 150.0 mBar.
- High resolution of 0.01inWC or 0.01mBar for precise static pressure measurements.
- Includes 3/16” to 5/16” adapters (RMA316) for various gas inlet and outlet pressure measurements.

Setup

1. Battery Installation

The SDMN5 Manometer requires one 9-Volt battery for operation. A battery is typically included with the unit. To install or replace the battery:

1. Locate the battery compartment cover on the back of the unit.
2. Remove the cover.
3. Insert a fresh 9-Volt battery, ensuring correct polarity.
4. Replace the battery compartment cover securely.

2. Connecting Pressure Tubes

The manometer features two ports, P1 and P2, for connecting pressure tubes. The unit comes with 2 3/16-inch tubes with brass fittings and 3/16-inch to 5/16-inch tube adapters (RMA316).

- Connect the appropriate pressure tubes to the P1 and/or P2 ports based on your measurement requirements.
- Use the provided adapters for different fitting sizes as needed for gas inlet and outlet pressures.
- Ensure all connections are secure to prevent leaks and ensure accurate readings.

Operating Instructions

1. Power On/Off

To power on the unit, press and hold the**ON/OFF** button for approximately one second. To power off, press and hold the **ON/OFF** button again until the display turns off. The Auto Power-Off (APO) function will automatically turn off the unit after a period of inactivity to conserve battery life.

2. Zero Adjustment

Before taking measurements, it is crucial to zero the manometer for accuracy. Ensure both P1 and P2 ports are open to atmospheric pressure (not connected to any pressure source) before performing this step.

- Press the **ZERO** button on the face of the meter.
- The display should show 0.00 for both P1 and P2, indicating successful zeroing.

3. Unit Selection

The SDMN5 can display measurements in various units. To cycle through available units:

- Press the **UNIT** button.
- The display will cycle through units such as inWC (Inches of Water Column), mBar, and potentially others like PSI (if supported by the model's firmware).

4. Taking Measurements

The manometer can measure individual pressures (P1 or P2) and the differential pressure (P1-P2).

- **Individual Pressure (P1 or P2):** Connect the pressure source to the desired port (P1 or P2). The display will show the corresponding pressure reading.
- **Pressure Differential (P1-P2):** Connect one pressure source to P1 and another to P2. Press the**P1/P2** button to toggle between displaying P1, P2, or the calculated difference between P1 and P2.
- **Static Pressure:** For static pressure measurements, the resolution can be set down to 0.01inWC or 0.01mBar for precise readings.

5. Hold Function

To hold the current reading on the display:

- Press the **HOLD** button.
- The displayed values will freeze. Press **HOLD** again to release and resume live readings.

Maintenance

1. Cleaning

Keep the manometer clean by wiping it with a soft, damp cloth. Do not use abrasive cleaners or solvents, as they may damage the unit or its display. Ensure the ports are free from debris.

2. Battery Replacement

Replace the 9-Volt battery when the low battery indicator appears on the display to ensure continued accurate operation. Refer to the "Battery Installation" section under Setup for detailed instructions.

3. Storage

When not in use for extended periods, store the manometer in a cool, dry place. It is recommended to remove the battery if storing for several months to prevent potential leakage and damage to the unit.

Troubleshooting

If you encounter issues with your Fieldpiece SDMN5 Manometer, consider the following common troubleshooting steps:

- **No Display/Unit Not Turning On:** Check the 9-Volt battery. Ensure it is properly installed and has sufficient charge. Replace if necessary.
- **Inaccurate Readings:**
  - Perform a zero adjustment as described in the "Operating Instructions" section.
  - Verify that pressure tubes are securely connected and free from kinks or blockages.
  - Ensure the correct measurement unit is selected.
- **Erratic Readings:** Check for loose connections at the ports or within the pressure system being measured. Ensure the environment is stable and free from sudden temperature changes or vibrations.

For persistent issues or problems not covered here, please refer to the comprehensive Operator's Manual or contact Fieldpiece customer support.

Specifications

Model Number:
SDMN5

Product Dimensions (L x W x H):
2.5 x 1.25 x 7.25 inches

Item Weight:
6.9 Ounces

Material:
Metal, Rubber

Battery Type:
1 x 9V battery (included)

Measurement Range:
-60.0" WC to 60.0" WC (Inches of Water Column)

-150.0 to 150.0 mBar

Resolution (Static Pressure):

0.01" WC or 0.01 mBar

Included Accessories:

2 3/16-Inch tubes with brass fittings

2 3/16-Inch to 5/16-Inch tube adapters (RMA316)

Operator's manual

Warranty and Support

For detailed warranty information, please refer to the Operator's Manual included with your Fieldpiece SDMN5 Dual-Port Manometer. The manual contains specific terms, conditions, and duration of the product warranty.

Should you require technical assistance, service, or have questions regarding the operation of your manometer, please contact Fieldpiece customer support. Contact information can typically be found in the Operator's Manual or on the official Fieldpiece website.

Note: Always use genuine Fieldpiece accessories and parts to ensure optimal performance and to maintain warranty validity.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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