

Description

The SDMN5 is a portable standalone dual port manometer. The SDMN5 is capable of taking gas pressure as well as static pressure. The SDMN5 comes in a rugged rubber boot. The SDMN5 also has a zero adjust and a hold button to hold the currently displayed reading. The auto-power-off func-tion conserves battery life, but can be disabled if

The SDMN5 will allow you to take gas pressure up to ±60" (152cm) of WC. The SDMN5 will take differential pressure readings and display the difference between P1 and P2 at all times in the lower right corner of the LCD. The SDMN5 also has four different measurement scales including inches of water column, millimeters of water column, mBar and PSI. Static pressure is possible with the resolution to 0.01" of WC (0.1mmWC). Special purpose static pressure instruments are on the market with better accuracy and temperature compensation but they typically cost many times more than the

Operation

- Zero SDMN5 by pressing the ZERO just before taking the pressure readings, while at ambient pressure. This will zero both P1 and P2. For measurements less than 2inWC, take reading within 1 minute after zeroing for best accuracy.
- 2. Connect a single hose to get the gauge pressure relative to the ambient or ZERO pressure.
- 3. Connect both hoses if you want to see relative pressure, P1 minus P2
- 4. By pressing the P1 / P2 button you can change between displaying P1 or P2, P1 - P2 is constantly displayed in the lower right of the LCD.
- Pressing the unit button makes it possible to switch between the four measurement scales of inches of water column (inWC), millimeters of water column (mmWC), mBar, and PSI. The scale being viewed is displayed on the right side of the LCD.
- . To disable the auto-power-off hold the HOLD button while turning the unit on. If the autopower-off is enabled (meter will turn off automatically) an APO will appear on the display. If Auto-power-off is disabled (meter will not turn off on its own), then no designation will appear on the LCD
- 7. If you are in an environment where the temperature is noticeably changing while you are taking your reading, it is advised that you disconnect the meter from the hoses and ZERO it relative

Used for 5/16" pressure outlet ports

. Shut off main gas supply to furnace

clockwise one revolution to open.

Tap Screv

Outle

Ssure

pressure tap screw. Rotate screw counter-

(3/16") end of the adapter and the other (5/16")

end of the adapter into the of the adapter tube.

pressure boss (port) to seal. Overlap the pres-

Smaller end (3/16") of the adapter

connects to SDMN5 tubing. Remove the installed brass fitting from tube so the adapter can be inserted.

Inlet Pressure

Inlet Pressure

Tap Screw

sure boss by at least 3/8" to prevent leakage.

to ambient before each reading.

Checking Gas Pressure on a Regulator

- . Screw the brass fitting into the pressure por the regulator.
- 2. Put unit into operation (i.e. turn on the furna and have furnace ignite, as if running it in no mal operation.)
- 3. This will give you the pressure coming out o regulator.
- 4. If you suspect high or low inlet pressure into regulator, the manometer can hook into the port in the same manner it can connect into outlet port. If you have a dual-port manomet you can check both the inlet and the outlet simultaneously and see the pressure drop across the regulator.
- 5. See manufacturer's specification for target in and outlet pressure for a given regulator or piece of combustion equipment.

Battery Check Function

Press and hold the UNIT button to display th percentage of usable battery remaining. This function can be used any time the meter on.

Field Calibration

Pressure:

By pressing the ZERO button, both the P1 a P2 are zeroed to the pressure they are bein exposed to. For this reason the calibration should be done when both P1 and P2 are d connected from the hoses.

Warranty

The product is warranted to the original purc er against defects in material or workmanship period of one (1) year from the date of purch During the warranty period, Fieldpiece Instrum will, at its option, replace or repair the defective

This warranty does not apply to defects resu from abuse, neglect, accident, unauthorized re alteration, or unreasonable use of the instrun Any implied warranty arising out of the sal Fieldpiece's products including but not limite implied warranties of merchantability, and fitnes purpose, are limited to the above. Fieldpiece not be liable for incidental or consequential (

Service

Return any defective SDMN5 to Fieldpiece warranty service along with proof of purch Contact Fieldpiece for out of warranty re charges.



OPERATOR'S MANUAL

Accuracy: Stated accuracy at 0 to 50°C (32 to 122°F): ±1.5% FS

Fieldpiece

Battery: Single standard 9-volt battery, NEDA 1604, JIS 006P, IEC 6F22.

Battery Life: 200 hours with low battery indicator on display

Operating environment: 32°F (0°C) to 122°F (50°C)

Compatible Media: Dry, non-corrosive gases Overrange: "OL" or "-OL" is displayed.

Auto-Off power: 15 minutes

Low Battery: symbol is displayed.

Dimensions: 180mm(~7 1/16")(H) x 60mm(~2 3/8")(W) x 30mm(~1 3/16")(D)

Weight: approximately 195g including battery Pressure

General

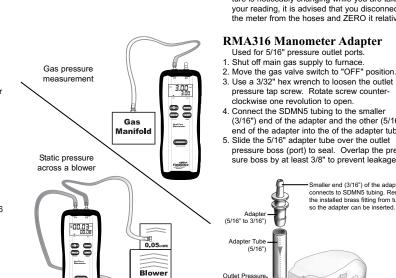
Pressure Ports: tube connectors for 5mm (~3/16 inch) I.D. flexible tubing
Units of Measure: inWC, mmWC, mbar, PSI

Resolution: 0.01 inch WC

Accuracy/Ranges:

inWC: ±0.02 on 0.00 to ±2.00 ±1.5% FS on 2.00 to ±60.0 mmWC: ±0.5 on 0.00 to ±51.0 ±1.5% FS on 51.0 to ±1500 mbar: ±0.05 on 0.00 to ±5.00 +1.5% FS on 5.00 to +150.0 ±0.001 on 0.000 to ±0.07

±1.5% FS on 0.07 to ±2.000



-0.03inwc

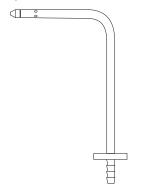
ASP2 Static Pressure Probe

For accurate static pressure measurements.

1. Connect ASP2 to SDMN5 via hose.

- 2. Insert ASP2 into drilled or pre-existing 1/4" hole.
- 3. Use allignment arrow on the ASP2 to direct probe into the air stream.
- 4. Read static pressure measurements from the display on the SDMN5
- Remove probe and patch hole.

Note: For best accuracy on measurements less than 2inWC, take measureument within 1 minute of zeroing



More Products From Fieldpiece



Modular Expandability

Modular expandability is ability for accessory heads and meters to change configurations to match the various needs of an HVAC/R technician.

Accessory heads (the sensors) send out a mV signal, which represents the value of the measurement, to whatever meter is attached to it. Heads can attach directly to the top of a Stick meter, DL3 data logger, or EHDL1. They can also plug into any meter with mV ranges using ASLS2 leads.

Stick Meter

This is the heart of modular expandability. In addition to being a full functioning multimeter, any accessory head can be used with it.

Model HS36

Non contact voltage Magnetic hanger Autoranging Backlight

Temperature Volts, amps, ohms Frequency Microfarads

Includes: HS36 Meter ACH4 Current Clamp ATB1 K-type TCouple ADLS2 Deluxe Leads ANC1 Case



Accessory Heads

Accessory heads are the sensors of parameters measured by technicians ever They plug into a mV range (depending on the of a multimeter. The multimeter will display er the head is measuring. Instead of having chase and carry a separate instrument for parameter, a technician can use multiple he a single multimeter to do the job.



Here are four of the many heads availabl

AAV3 Air Velocity and Temperature ADMN2 Dual-Port Manometer AVG2 Digital Vacuum Gauge AOX2 Combustion Check