

Setting up you DM-2 mark II for a NFPA Enclosure Integrity Test

1. Turn on your DM-2 by pressing the **On/Off** button once
2. Pressure the **Enter** button once to clear the splash screen
3. Press the **Setup** button to enter the setup menu
4. Press the **Down** or **Up Arrow** buttons to scroll through the list until Mode Setup is highlighted
5. Press **Enter** to enter the Mode Setup submenu
6. If Pressure is not highlighted, use the **Down** or **Up Arrow** buttons to scroll until Pressure is highlighted.

7. Use the **Left/Right Arrow** buttons to scroll until Pa is displayed
8. Scroll down once to highlight Flow
9. Use the **Left/Right Arrow** buttons to scroll until Off is displayed
10. Scroll down twice to highlight EfLA
11. Use the **Left/Right Arrow** buttons to scroll until Off is displayed
12. Scroll down twice to highlight EqLA
13. Use the **Left/Right Arrow** buttons to scroll until in² or ft² is displayed (your option)
14. Scroll down twice to highlight Air Change
15. Use the **Left/Right Arrow** buttons to scroll until Off is displayed
16. Scroll down twice to highlight Flow per Area
17. Use the **Left/Right Arrow** buttons to scroll until Off is displayed
18. Scroll down twice to highlight EqLA per Area
19. Use the **Left/Right Arrow** buttons to scroll until Off is displayed
20. Scroll down twice to highlight EfLA per Area
21. Use the **Left/Right Arrow** buttons to scroll until Off is displayed
22. Scroll down twice to highlight Velocity
23. Use the **Left/Right Arrow** buttons to scroll until Off is displayed
24. Scroll down once to highlight Velocity Flow
25. Use the **Left/Right Arrow** buttons to scroll until Off is displayed
26. Press the Exit button once to exit from the Mode setup submenu.

27. Scroll **Up** once to highlight Device
28. Press **Enter** to enter the Device Setup submenu
29. Scroll through the devices and turn off any fans that you don't have and turn on (set to Yes) the fans that you do have, or will be using this gauge with.

30. Press **Exit** twice to exit the Setup Menu

Your DM-2 is now set up for performing the NFPA 2001 Enclosure Integrity Test.

Performing an NFPA 2001 Enclosure Integrity Test (single point test as per 2004 edition)

1. Set up your door fan system according to the appropriate quick-guide
2. Turn on the gauge
3. Press the **Mode** button repeatedly until PrA and PrB appear on the display
4. Press the **Time Avg** button repeatedly until 4s appears
5. Press the **Auto Zero** button until the word On appears beneath the Zero label
6. Press the **Device** button until the name of the fan you are using appears in the bottom right corner of the display
7. Install all ranges and all plugs into the C8 plate, or, install the fan cover over the fan.
8. Read the static pressure from the PrA display.
9. Use smoke to determine the direction of the static pressure
10. Enter information into CA2001
11. Remove the fan cover (if installed) and install the appropriate range.
12. Press the **Range** button until the installed range appears in the bottom left corner of the DM-2
13. Locate the target pressure for the first test direction in CA2001

Option 1 - Using Set Pressure to achieve the Target Pressure

14. Press **Set Pressure** and enter the target pressure
15. The fan should increase in speed and eventually stabilize with PrA matching the input target pressure.
16. Enter PrA (Pressure reading on Channel A which is the building pressure or also called room pressure) and PrB (Pressure reading on Channel B which is the flow pressure) from the DM-2 into CA2001. Channel A is the upper pressure reading and Channel B is the lower pressure reading.

Option 2 - Using Set Speed to achieve the Target Pressure

17. Press **Jog/Hold** until Jog appears in the top center of the DM-2 display
18. Use the **Up/Down Arrow** buttons to increase/decrease the fan speed. Quickly press and release for jumps of 1% speed. Hold and release for jumps of 5% speed.
19. Adjust the fan speed until PrA displays a pressure within the target pressure range shown in CA2001
20. Enter PrA (Pressure reading on Channel A which is the building pressure or also called room pressure) and PrB (Pressure reading on Channel B which is the flow pressure) from the DM-2 into CA2001. Channel A is the upper pressure reading and Channel B is the lower pressure reading.

Using your Gauge for Leak Location

21. If you are not already in Set Pressure mode (for example, you used Option 2 to achieve your target room pressure) then press the **Set Pressure** button and input the current, target, pressure.
22. Press the **Mode** button until EqLA appears on the display.
23. If the units for EqLA indicate ft² or in² "@ 50Pa", then press the @ button until the @ qualifier disappears
24. If the displayed leakage is small, and you are in ft² you might want to switch units to in² in the setup menu. If the leakage is large and you are in in², you might want to switch units to ft².

25. The DM-2 now displays the total leakage area of the enclosure. As you search for, locate, and temporarily seal holes in the enclosure, you will hear the fan slow down (less flow is required to achieve the target pressure when the room is tighter).
26. The retention tab in CA2001 indicates the Maximum Allowable Leakage. You can use that number as a guide to determine when the room has been sealed enough to pass the door fan test.