

Exhaust Fan Flow Meter Quick Guide

1. Connect the metering box to the pressure gauge.

- Connect one end of flexible tubing to the pressure tap located in the corner of the Metering Box.
- Connect other end of tubing to the **Channel B Input** tap on DG-700

2. Select the door position on the metering box.

- The Metering Box comes with an adjustable opening which provides 3 ranges of fan flow measurement.

Door Position	Flow Range (CFM)
E1	44-124
E2	21-59
E3	10-28

- Determine door position using snap pin located on the top of the Metering Box.

3. Attach the handle

- Attach handle to the Metering Box using Velcro strips, or
- Screw in painter's pole

4. Turn on and configure the pressure gauge.

- Manometer Settings
 - Turn on the gauge using the **ON/OFF** button
 - Press the **MODE** button to **PR/ FL**
 - Press the **DEVICE** button and set to **EXH.**
 - Press the **CONFIG** button to match the Metering Box door position

Door Position	CONFIG icon
E1	A1
E2	B2
E3	C3

5. Place metering box over the exhaust fan grill and determine flow reading.

- Turn on exhaust fan, place the Metering Box completely over the fan grille to create an air tight seal around the grille.
- Record air flow reading shown on **Channel B** display.
 - If the flow reading is fluctuating, use **TIME AVG** button.
 - If the measured pressure is above 8.0 Pascals, check the door position.
 - Adjust the position to create a larger opening in the Metering Box.
 - If the door position is set to E1 (the largest opening), then the fan flow is outside the high range of the instrument (i.e. flow is greater than 124 CFM)
 - If the measured pressure is below 1.0 Pascal, check the door position.
 - Adjust the position to create a smaller opening in the Metering Box.
 - If the door position is set to E3 (the smallest opening), then the pressure is below 1.0 Pascal, and the fan flow is outside the low range of the instrument (i.e. flow is less than 10 CFM).