QuickGuide

Setup DucTester gauge for Codes (referencing 2009 IECC)

Dual-Channel Digital Micromanometer and Control

Baseline   n   Time Zero

----|0.60| 4s | On

Pressure

PrA   **0.0** Pa

Mode   Flow /Area   **TOO LOW** CFM/100FT² @25.0Pa → Code Required Results

area : 1500 ft²

Set Range Config   Mid   Retrotec   DU200   Speed Device → Correct Device

DM-2 mark II
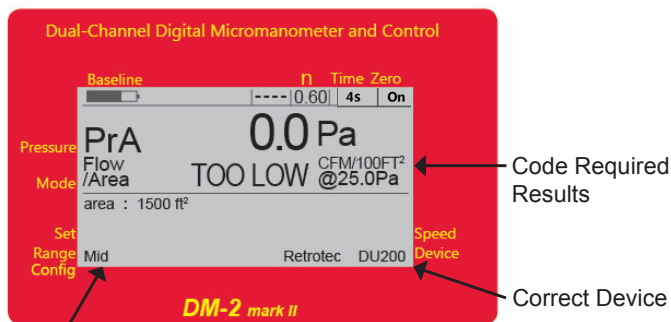
Range Configurations: It is recommended to start on the Mid-Range Ring.

This is what your gauge should look like before you begin testing ducts. The following steps will show you how to easily setup your gauge for duct testing to code standards (the 2009 IECC - International Energy Conservation Code).

Step 1: Setup for Device

- Press the **[On/Off]** key.

  On / Off
  Backlight
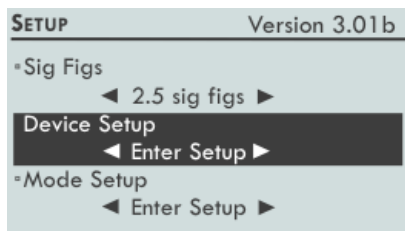
- Press **[Exit]** to get to the main screen.

  Exit

- Press **[Setup]**.

  Setup
  3

- Press **[▼]** until "Device Setup" is highlighted.

  SETUP   Version 3.01b
  ▪ Sig Figs
       ◄ 2.5 sig figs ►
  Device Setup
       ◄ Enter Setup ►
  ▪ Mode Setup
       ◄ Enter Setup ►

- Press **[Enter]**.

  Enter
  Volume Area

The screen will now display all of the different types of equipment that can be used with the DM-2.

Step 2: Setup Device Choices

To eliminate Devices not relevant to duct testing, follow the steps outlined below.

Enable/Disable Device

[+] Retrotec DU100	◄ No ►
[+] Retrotec DU200	◄ Yes ►
[+] Retrotec 600/700	◄ No ►
[+] Retrotec 800/900	◄ No ►
[+] Retrotec 1000	◄ No ►
[+] Retrotec 2000	◄ No ►
[+] Retrotec 3000	◄ No ►

- Scroll down the list of Devices, one by one, by pressing **[▼]** .

  Set Speed
  8 ▼

- Select "No" for all Devices except "Retrotec DU200". Scroll down, one by one, and turn the other devices to "No" by pressing **[►]**.
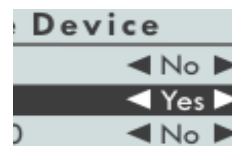
  Device
  ◄ No ►
  ◄ Yes ►
  ◄ No ►

  "No" means that the Device will not display on main screen, "Yes" means that it will display on the main screen.

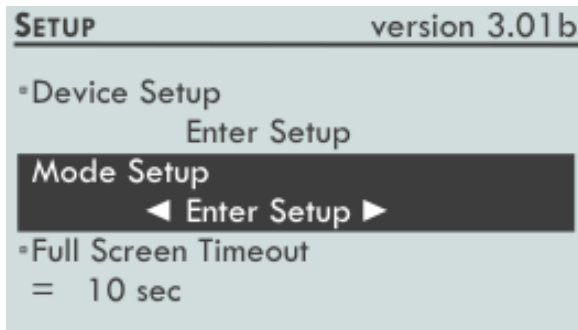- Now press **[Exit]** to return to the "Setup" menu.

  Exit

The gauge will now only display "Retrotec DU200" on the main screen. If you want to use this gauge for other Devices, select "Yes" for that Device on the "Enable/Disable Device" menu.

Step 3: Setup Mode

The "Mode Setup" allows you to select only the results needed for duct testing according to code (2009 IECC).

Instead of doing calculations by hand, simply select the mode you are required to produce and the DM-2 will do the work for you.

● Press **[▼]** to get to "Mode Setup".

```
SETUP                    version 3.01b

□Device Setup
          Enter Setup
Mode Setup
        ◄ Enter Setup ►
□Full Screen Timeout
  =   10 sec
```

● Press **[Enter]**.

Enter
Volume
Area

The "Enable/Disable Mode" screen will list the various modes the DM-2 will display. For Code duct testing, most States require CFM per 100 sq. ft. of conditioned floor area.

```
Enable/Disable Mode
Pressure            ◄ Pa         ►
Flow                ◄ cfm        ►
  @ Pressure        25 Pa
EqLa                ◄ off        ►
  @ Pressure        10 Pa
EfLa                ◄ off        ►
  @ Pressure        4 Pa
Air Change          ◄ off        ►
  @ Pressure        50 Pa
Flow per Area       ◄cfm/100ft²  ►
  @ Pressure        25 Pa
EqLa per Area       ◄ off        ►
  @ Pressure        50 Pa
EfLa per Area       ◄ off        ►
  @ Pressure        50 Pa
Hole Flow           ◄ off        ►
```

List of Modes

Step 4: Select Mode for results

● Scroll down using **[▼]** past "Pressure", and "Flow". Below "Flow" is "@ Pressure". Press **[Enter][25][Enter]** to change this to 25 Pa.

● Scroll down using **[▼]** to the next Mode, "EqLA". Press **[Enter]** or use **[►]** until "off" appears.

```
Enable/Disable Mode
Pressure            ◄ Pa         ►
Flow                ◄ cfm        ►
  @ Pressure        25 Pa
EqLa                ◄ off        ►
  @ Pressure        10 Pa
```

● Below "EqLA" is "@ Pressure". Since EqLA was turned "Off" in the previous step, "@ Pressure" can be left alone.

● Scroll down, turning the next few modes off until the "Flow per Area." Press **[►]** until "cfm/100ft²" is selected.

```
Flow per Area       ◄ cfm/100ft² ►
  @ Pressure        25 Pa
```

● Scroll down to "@ Pressure" directly below "Flow per Area" and press **[Enter] [25] [Enter]**.

● Continue to turn all other Modes to "off".
● Press **[Exit]** twice to return to main screen.

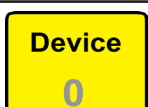● Press **[Mode]** to switch between results displaying on the main screen

Mode
1

● Press **[Auto Zero]** until "On" appears - to keep the gauge zeroed and ready to measure.

n   Time   Zero
    | 4s | On

Auto Zero
6 ►

● Press **[Time Avg]** until "4s" appears.

n   Time   Zero
    | 4s | On

Time Avg
5

● Press **[Device]** until "Retrotec DU200" appears.

Retrotec DU200 Device

Device
0

● Press **[Range Config]** until "Mid" appears.

Range Config   Mid

Range Config
2 ▲

Congratulations, you've just set up your gauge to test ducts!