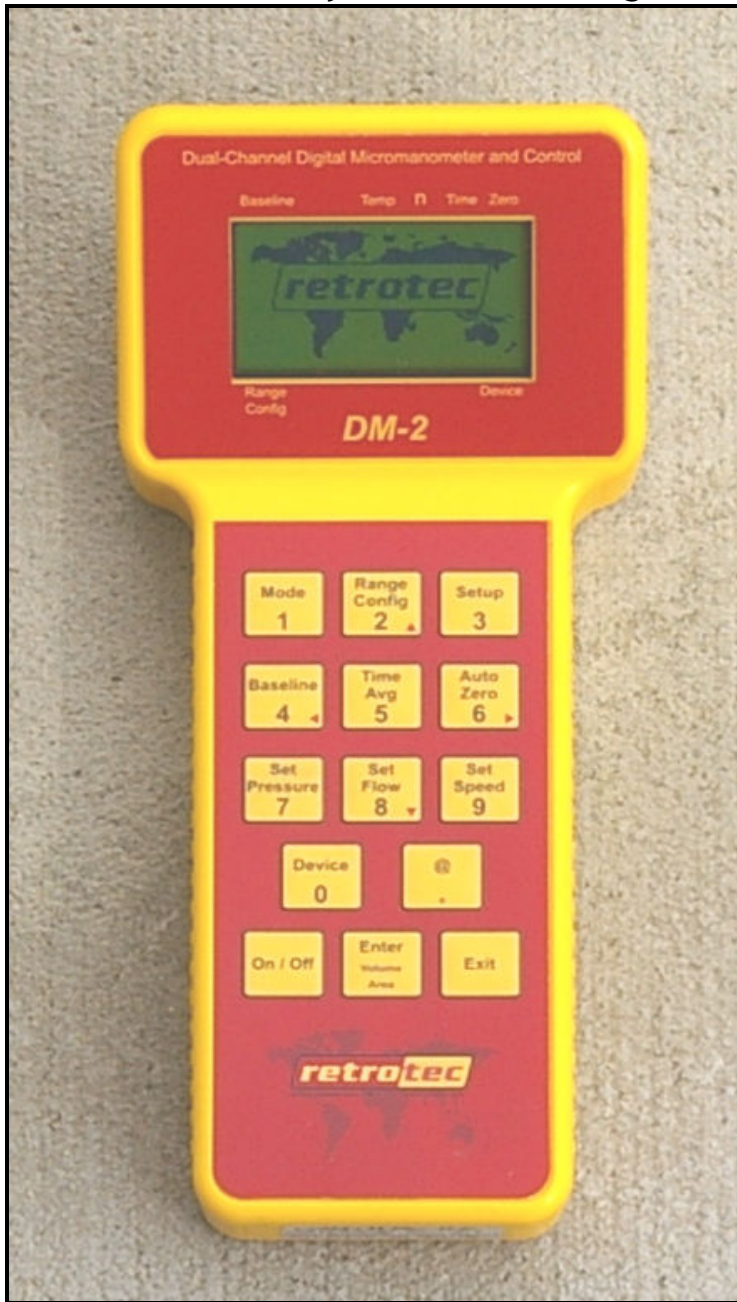


Retrotec DM-2 Series 2-Channel Digital Pressure Gauge

Revolutionary New Airflow Diagnostics

| | |
|-------|---|
| DM-2 | With Manual Speed Control |
| DM-2A | Features Automatic Speed and Pressure Control |



The on the fly display puts the operator in command of virtually every parameter of interest to the door-fan tester. The DM-2 represents a huge advance in building and envelope diagnostic instrumentation.

USB Uplink allows the DM-2 Series Gauge to be connected to a computer for Data Acquisition, Automatic Control or remote data monitoring. Ask us about our software development kit for Excel or Visual Basic.

```

Off |----|0.65| 1s|0ff
PrA  -51.90 Pa
Flow  4610 cfm
-----
Open(22)  Retrotec 2000
    
```

Simultaneous
Pressure and
Flow

Displayed on the fly or extrapolated to your desired test pressure. No need to achieve an exact speed to get perfect results!

Air-changes
without a
laptop!

```

Off |----|0.65| 2s|0ff
PrA  -45.00 Pa
Air  2.30 /h @50.0Pa
Chz
-----
Enclosure Vol. = 25000ft³
C8  Retrotec 2000
    
```

Input the volume of your building and adjust the fan to your desired test pressure. Can't reach your test pressure - no problem - Use @-Pressure to extrapolate to 50Pa, 25Pa, or any other pressure.

```

Off |----|0.65| 2s|0ff
PrA  -50.25 Pa
Flow /Area  1.04 m³/hr/m² @50.0Pa
-----
Enclosure Area = 1500m²
C8  Retrotec 2000
    
```

Advanced
Calculation of
Normalized
Airflow and
Leakage Areas

Permeability and Specific Leakage Rates (as per EN13829 and TM23) can also be displayed in real time, by simply entering either the floor or envelope areas.

Automatic
Pressure
Control

```

Off |----|0.65| 2s|0ff
PrA  -20.20 Pa
Flow  402 cfm @25.0Pa
-----
Target Room Pr: 20 Pa
Fan at: 33.8%
C4  Retrotec 2000
    
```

The DM-2A offers onboard "Set-and-Forget" control of house pressure and flow pressure. Save time and effort by setting to 50Pa and let the DM-2A do the rest. As you identify and seal leaks, the system automatically adjusts the fan speed to hold the desired house pressure.

Automatic Control requires a DM-2A and works with all 2200, 3200 and DU220 Digital Fan Products.

Retrotec DM-2 Series Digital Gauge

Specifications

- Pressure Channels:** 2 independent pressure channels (A & B)
- Pressure Range:** -1250 Pa to +1250 Pa (-5 to +5 inches H₂O)
- Resolution:** 0.01 Pa (0.0001 inches H₂O, 0.001 lb/ft²)
- Accuracy:** 1% of pressure reading or 0.15 Pa (whichever is greater)
- Weight:** 14 oz (397 g)
- Dimensions:** 8.75" x 4.25" x 3" (22.2 x 10.8 x 7.6 cm)
- LCD Display:** 2.4" x 1.4" (6 x 3.6 cm)
- Operating Temperature Range:** 32 to 130°F (0 to 53°C)
- Display Backlight:** press [On] to activate
- Power:** 4 NiMH rechargeable batteries and charger included
- Auto Off:** 4 hours
- Temperature:** can be displayed with Retrotec's temperature probe that will be available in 2007.
- Calibration Meets:** Canadian CGSB-149.1-2002 & SuperE, USA ASTM E 779 - 03, European EN 13829 & CEN, UK TM-23 Energy Standards, Rain Penetration Standards. NFPA 2001- 01, ISO 14520 and UBC-905 fire standards.



Supported Units of Measurement

Channel A: *Pressure* in Pascals, inches H₂O, lb/ft²

Channel B: *Pressure* in Pascals, inches H₂O, lb/ft²

- or {
- Flow* in cfm, l/s, m³/s, m³/h
 - Flow @ (any pressure)* calculates flow at ANY desired pressure configured in Setup menu
 - Leakage Area - EqLA* (Canadian) and/or *EfLA* (US) in cm², in², ft²
 - Leakage Area @ (any pressure)* calculates ELA at ANY desired pressure configured in Setup menu
 - Air-changes per hour* according to volume entered on keypad
 - Velocity* in m/s, km/h, ft/s, ft/min, mph
 - Velocity-Flow* in cfm, l/s, m³/s, m³/h according to cross-sectional area entered on keypad

DM-2 Functionality (available with DM-2 and DM-2A)

- Range/Config:** cycles through flow ranges of the blower door or duct tester being used.
- Setup:** permits changing default units, displayed outputs, devices and reference pressures
- Baseline:** measures and removes background pressures on Channel A for subsequent testing.
- Time Avg:** Advanced box-car averaging displays continuous updates of the average pressure. No more waiting for your next average pressure measurement! Dramatically reduces the affect of wind and other pressure fluctuations.
- Auto Zero:** On start up and every 8 seconds on both channels. May be turned off.
- Device:** Selects the flow characteristics of virtually any blower door, Duc-tester or a pilot tube.
- @:** Turns on/off extrapolation to configured pressures
- Volume/Area:** Enter volume and/or area values to calculate air-change and flow/unit area results.
- Temperature:** Displayed with Retrotec's temperature probe (available 2007).

DM-2A Exclusive Functionality (requires 2200, 3200, or DU220 series fans)

- Set Speed:** Allows direct control of Fan speed from the DM-2 - no need to handheld speed control.
- Set Flow:** Closed-loop PID control of Fan Flow Pressure - great for windy conditions.
- Set Pressure:** Permits "set and forget" control of your fan. Dial in "Set 50Pa" and the fan will ramp up and hold 50Pa giving on the fly flow, ACH or leakage measurements. As you identify and seal leaks, the fan will automatically adjust itself for the tighter enclosure.



| DM-2 Standard Equipment | DM-2A Standard Equipment |
|---|---|
| <ul style="list-style-type: none"> • 25' (3m) red tube • 10' (3m) clear tube • Instruction manual • 2 year warranty | <ul style="list-style-type: none"> • Integrated Control Umbilical • Instruction manual • 2 year warranty |



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Specifications subject to change without notice.

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