

DG-700 Digital Pressure and Flow Gauge

The **DG-700 Digital Pressure and Flow Gauge** is a hand-held, high-resolution differential pressure gauge with 2 measurement channels. It works with all Energy Conservatory test devices to provide airflow measurements during building performance test procedures. Its dual pressure channels and air velocity flow measurement features make it ideally suited for a wide range of building performance testing applications, including:

- **Blower Door and Duct Blaster® airtightness testing**
- **Exhaust fan and air handler flow measurements**
- **Building depressurization and combustion safety testing**
- **Static pressure and velocity measurements using a Pitot tube**

DG-700 Gauge Features

- Industry best accuracy, $\pm 1\%$ of reading from $-1,250$ to $+1,250$ Pascals, or -5 to $+5$ inches of water.
- Calculates and displays air flow reading with these devices:
 - Model 3 Minneapolis Blower Door™ fans
 - Model 4 Minneapolis Blower Door™ fan (220V)
 - Series A and B Minneapolis Duct Blaster® fans
 - Exhaust Fan Flow Meter
 - TrueFlow® Air Handler Flow Meter
- Velocity units on Channel B when used with a Pitot Tube.
- HOLD button temporarily freezes the most recent display readings.
- Two year calibration

The DG-700 Gauge offers these advanced measurement capabilities:

- "Baseline" feature on Channel A lets you measure and record a baseline pressure reading, then display the baseline adjusted reading.
- Specialized @50 and @25 Leakage Measurement Modes to conduct single-point airtightness tests of building and duct systems. Estimated leakage rates displayed on Channel B are continuously adjusted to a test pressure of either 50 Pascals or 25 Pascals. Choice of leakage units (cfm @, m³/hr @, l/s @, sq. inches @, sq. centimeters @).
- Air Handler Flow Measurement Mode lets you measure air handler flow rates using a TrueFlow Air Handler Flow Meter or a Duct Blaster® fan.
- Connect the DG-700 gauge to a computer with easy-to-use



TEC software to conduct automated Blower Door tests and for data logging of pressure measurements from both channels.

- Cruise 75 50, 25 or 0 Pa building pressure without connection to a computer. The Cruise Control feature automatically adjusts the speed of the Blower Door and Duct Blaster® fan to maintain a constant test pressure while you perform additional diagnostics or air-sealing procedures.

Automated Blower Door Tests and Data Logging

The DG-700 can conduct automated Blower Door tests using TECTITE software. Connect your DG-700 and Blower Door fan speed controller with fan control port to your computer using the fan control cable, and serial (M to F), USB cable or WiFi Link. Data logging of pressure measurements from both channels is easily done using our TECLOG data logging software.



Go wireless without buying a new gauge.

Now you can wirelessly monitor and control your DG-700 gauge by attaching it to our new TEC WiFi Link device. Our software (available online) lets you create a wireless network that can be picked up by any computer or mobile device with WiFi capability. And the best part is, you do NOT have to buy a new gauge to add this wireless technology to your system. For more information on TEC WiFi, download the free brochure on our website.

DG-700 Digital Pressure Gauge Specifications

Number of Independent Pressure Channels	2
Pressure Range	-1,250 to +1,250 Pascals (-5 to +5 inches of water)
Display Resolution	0.1 Pascals (0.0001 inches of water)
Accuracy	1% of pressure reading or 0.15 Pascals, which ever is greater.
Units of Measure	Channel A—Pascals, inches of water Channel B—Pascals, inches of water, CFM, CFM@50, CFM@25, m ³ /h, m ³ /h@50, m ³ /h@25, l/s, l/s@50, in ² @25, cm ² @50, cm ² @25, fpm, m/s
Auto-Zero	On start up and then once every 10 seconds
Time Averaging	1, 5, 10 seconds and Long-Term (continuous update)
Operating Temperature Range	32° F to 120° F (0° C to 48° C)
Storage Temperature Range	-4° F to 160° F (-20° C to 71° C)
LCD Display	3.193 x 1.16 inches (8.11 x 2.946 cm)
Display Backlight	Manually operated, timed off after 10 minutes
Power	6 - AA alkaline batteries supplied. AC power adapter optional.
Battery Life (Alkaline)	Over 100 hours continuous use
Auto-Off	After 2 hours from last keyed entry, unless disabled by user
Modes	Pressure/Pressure (Cruise available at 50, 25 and 0 Pa) Pressure/Flow* (Cruise available at 50, 25 and 0 Pa) Pressure/Flow @50* (Cruise available at 50 Pa) Pressure/Flow @25* (Cruise available at 25 Pa) Pressure/Air Handler Flow* Pressure/Velocity
Data Logging	Data logging of pressure measurements from both channels requires TECLOG for Windows® (available free at www.energyconservatory.com) and a USB cable (included) to connect the DG-700 to a computer
Dimensions	7.5 x 4 x 1.25 inches (19.5 x 10.16 x 3.175 cm)
Weight	16.5 oz. (0.468 kg)
Calibration	Meets ASTM Standard E779-03, E1554-07, CGSB-149.10-M86, EN 13829, ATTMA Technical Standard 1 and NFPA 2001, RESNET and US ACE. Recommended calibration interval is 2 years.

Specifications subject to change without notice.

Minneapolis Blower Door™ and TECTITE™ are trademarks of The Energy Conservatory. Duct Blaster® and TrueFlow® are registered trademarks of The Energy Conservatory.

The DG-700 Digital Gauge Kit includes: DG-700 Digital Pressure Gauge; protective carrying case; static pressure probe; 10 ft (3 m) red hose; 15 ft (5 m) green hose; 16 ft (5 m) USB cable A to B mini; instruction manual and 2 year warranty.

Complete service and technical support is built in.

All of our products come with a full two-year warranty on parts and labor, and access to the most knowledgeable customer service staff in the industry. If you have questions on the use of our products or how to handle unusual situations, you can count on us to give dependable answers. We always stock a complete line of replacement parts and can respond quickly to any service or equipment problem.

Our nearly 30 years of expertise goes beyond simply knowing about equipment. The Energy Conservatory's on-going research, active participation with technical associations, and close working relationships with the world's leading building scientists keeps us involved in the development and field testing of many of the performance testing industry's techniques. This means you always have the most up-to-date information and testing procedures.

To order, or for more information contact:



2801 21st Avenue South, Suite 160
Minneapolis, Minnesota 55407

phone: (612) 827-1117

fax: (612) 827-1051

e-mail: info@energyconservatory.com

website: www.energyconservatory.com