



The Energy Conservatory

**DG-700 PRESSURE AND FLOW GAUGE
DG-500 PRESSURE GAUGE
TEC WIFI LINK**



PERFORMANCE TESTING TOOLS

MOST WIDELY USED DIAGNOSTIC TOOLS BY:

Weatherization Auditors and Crews

Home Performance Contractors

Home Energy Raters

Trainers

1 DG-700 DIGITAL PRESSURE AND FLOW GAUGE

The **DG-700 Digital Pressure and Flow Gauge** is a high-resolution differential pressure gauge with two measurement channels. It works with all TEC 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 leading 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

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.
- 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.

Wireless Option

Now you can wirelessly monitor and control your DG-700 and DG-500 gauge by attaching it to our 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. See **3** to learn more.

2 DG-500 DIGITAL PRESSURE AND FLOW GAUGE

The **DG-500 Digital Pressure Gauge** is a hand-held, high-resolution differential pressure gauge with two independent measurement channels. Its dual pressure channels and air velocity measurement features make it ideally suited for a wide range of building performance testing applications, including:

• Building pressurization and depressurization mapping

Accurately measure pressure imbalances from one room to another, such as isolation suites or manufacturing clean rooms.

• Combustion safety testing

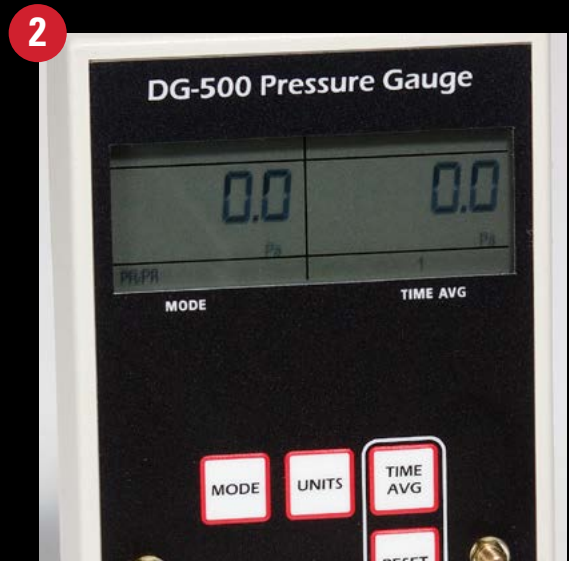
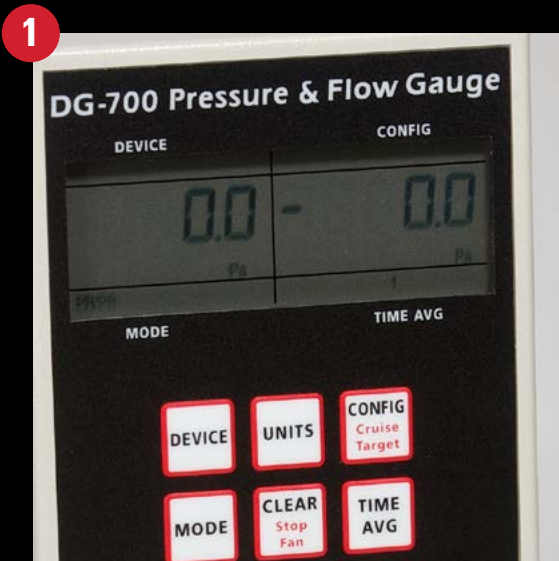
With two independent channels you can determine the effect of exhaust fans on both the combustion flue and the appliance room.

• Air handler and duct pressure measurements

Measure total external static pressure at the air handler, duct work static pressures and air velocity to help diagnose airflow performance problems.

DG-500 Gauge Features

- Simultaneous display of 2 independent differential pressure channels.
- Industry leading accuracy, $\pm 1\%$ of reading from $-1,250$ to $+1,250$ Pascals, or -5 to $+5$ inches of water.
- Auto-zeroing of both channels ensures accurate readings regardless of position and temperature.
- Choose from 4 time-averaging options, 1, 5, 10 second average and Long-Term or continuous average.
- Choose fpm or m/s velocity units on Channel B when used with a Pitot Tube.
- A HOLD button temporarily freezes the most recent display readings.
- Use the DG-500 gauge with a computer and TECLOG for Windows® software to conduct data logging of pressure measurements from both channels.
- Two year calibration.



3 TEC WIFI LINK

The TEC WiFi Link attaches to any DG-700 or DG-500 to create a wireless network that can be utilized by any computer or mobile device with WiFi capability. Using our free WiFi Link compatible software, you can monitor and control your compatible digital gauge from anywhere in the house.

Our WiFi Link will work with the latest versions of TECTITE and TECLOG for PCs, the TEC Gauge app for Android and iOS mobile devices, and the TEC Auto Test app for iOS mobile devices. TECTITE and TECLOG users will now be free to put their laptop anywhere in the home while conducting a Blower Door test. The TEC Gauge app lets you remotely cruise your Blower Door or Duct Blaster® fan, or monitor combustion appliance zone pressures while walking around the house turning exhaust fans on and off.

The best part is that the TEC WiFi Link is compatible with all DG-700 and DG-500 models with serial numbers 349 and higher.

Wirelessly Operate Your Gauge From Your

Laptop



iOS Device



Android Device



DG-700 SPECIFICATIONS

COMPONENT	SPECIFICATIONS
No. of Independent Pressure Channels	Two
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, m3/h, m3/h@50, m3/h@25, l/s, l/s@50, in2@25, cm2@50, cm2@50, 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 degrees F to 120 degrees F (0 degrees C to 48 degrees C)
Storage Temperature Range	-4 degrees F to 160 degrees F (-20 degrees C to 71 degrees 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	Six AA alkaline batteries supplied, AC power adapter optional
Battery Life (Alkaline)	Over 100 hours of continuous use
Auto-Off	After two hours from last keyed entry, unless disabled by user
Testing 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
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, E1554, 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.

Stylized images of the Blower Door is also a Registered Trademark.

COMPLETE SERVICE AND USER 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 40 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.

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Units of Measure	Channel A—Pascals, inches of water Channel B—Pascals, inches of water, fpm, m/s
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TEC WIFI LINK SPECIFICATIONS

COMPONENT	SPECIFICATIONS
Size	2.75 x 1.875 x 1 in (70 x 48 x 25 mm)
Weight	2 oz. (57 grams)
Radio Protocol	IEEE 802.11b compatible
RF Output Power (Typical)	+18 dBm
RF Operating Frequency	2.4 - 2.497 GHz
Supported Data Rates	11, 5.5, 2, 1 Mbps (802.11b)
Operating Temperature	32° - 120° F (0° to + 48° C)
Certifications and Compliance	Wi-Fi, FCC, IC, ETSI, RoHS, CE
Power Source	Connection to the TEC Digital Gauge (+6V to +12V DC at 250mA Nominal)
Battery Life of Digital Gauge when Connected with WiFi Link	20 - 30 hours continuous use depending on Digital Gauge
Wireless Connection Modes	Access point or router-supported



The **Minneapolis Duct Blaster®** is used to measure the airtightness of ductwork.



The **Minneapolis Blower Door™** is used to measure the airtightness of homes and buildings.



The **TrueFlow® Air Handler Flow Meter** is used to measure the total amount of air moving through an air handler.

For nearly 40 years, the Minneapolis Blower Door™ has been the system of choice for energy raters, HVAC contractors, builders, insulation contractors, weatherization professionals and utility programs.

✓ The most accurate

✓ Easy to use

✓ Dependable

✓ Backed by industry-leading tech support

To order, or for more information contact:



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