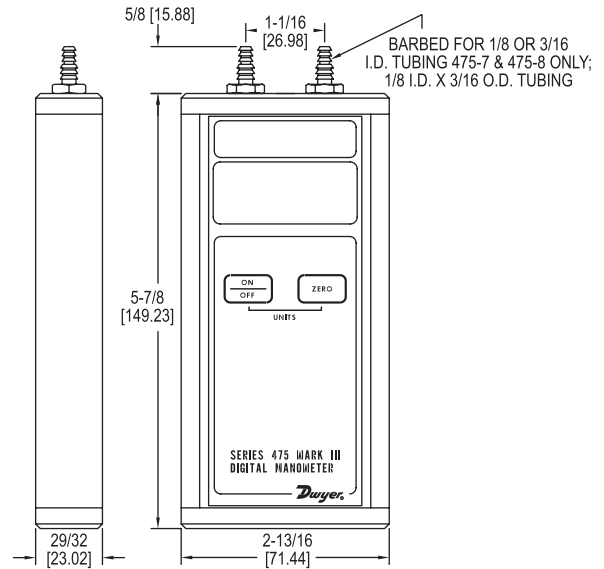




INTRINSICALLY SAFE HANDHELD DIGITAL MANOMETER

Ranges from 1 in w.c. to 150 psid, $\pm 0.5\%$ Accuracy

Dwyer
SERIES 475



The Series 475 Intrinsicly Safe Handheld Digital Manometer measures positive, negative, or differential pressures of air and natural gases in ranges from 1 in w.c. (0.249 kPa) to 150 psid (10.34 bar). The dual push pads on the front panel control the on/off, auto zero, and pressure unit selection, allowing for simple operation with no set up needed. When used with a Dwyer® Pitot tube (●), the Series 475 can also be used as an air velocity gage.

FEATURES/BENEFITS

- Rugged aluminum case protects instrument from damage during transport/use
- Large, easy to read LCD and simple operation
- FM approved to be intrinsically safe in hazardous locations, Class 1, Div 2, Groups A, B, C, D, T4 Ta = 70°C

APPLICATIONS

- Monitoring natural gas pressures on boilers and other combustion equipment
- Air velocity monitoring, when used with a Dwyer® Pitot tube (●) and AV calculator
- Field calibration of other instruments
- Monitoring or troubleshooting HVAC systems

MODEL CHART			
Model	English Range	Metric Range	Maximum Pressure
475-000-FM	0 to 1.000 in w.c.	.2491 kPa	5 psig
475-00-FM	0 to 4.000 in w.c.	0.996 kPa	5 psig
475-0-FM	0 to 10.00 in w.c.	2.491 kPa	5 psig
475-1-FM	0 to 20.00 in w.c.	4.982 kPa	10 psig
475-2-FM	0 to 40.00 in w.c.	9.96 kPa	10 psig
475-3-FM	0 to 200.0 in w.c.	49.82 kPa	30 psig
475-4-FM	0 to 10.00 psi	.6895 bar	30 psig
475-5-FM	0 to 20.00 psi	1.379 bar	60 psig
475-6-FM	0 to 30.00 psi	2.069 bar	60 psig
475-7-FM	0 to 100.0 psi	6.895 bar	150 psig
475-8-FM	0 to 150.0 psi	10.34 bar	200 psig

OPTIONS	
To order add suffix:	Description
-AV	Air velocity kit, includes the Series 475 manometer, two A-303 static pressure tips two 9' lengths 3/16" ID rubber tubing, no. 166-6-CF pitot tube, A-397 step drill, A-532 air velocity slide chart and instruction bulletin H-11, all packed in a tough, molded plastic carrying case with die cut foam liner.
Examples: 475-1-AV; 475-000-AV	
-NIST	NIST traceable calibration certificate
Example: 475-1-NIST	

SPECIFICATIONS

Service: Air and compatible combustible gases.
Wetted Materials: Consult factory.
Accuracy: $\pm 0.5\%$ FS, 60 to 78°F (15.6 to 25.6°C); $\pm 1.5\%$ FS from 32 to 60°F and 78 to 104°F (0 to 15.6°C and 25.6 to 40°C).
Pressure Hysteresis: $\pm 0.1\%$ FS.
Pressure Limits: See chart.
Temperature Limits: 0 to 140°F (-17.8 to 60°C).
Compensated Temperature Limits: 32 to 104°F (0 to 40°C).
Storage Temperature Limits: -4 to 176°F (-20 to 80°C).
Display: 0.42" (10.6 mm) 4 digit LCD.
Resolution: See chart.
Power Requirements: 9 V alkaline battery, installed non-functional, user replaceable.
Weight: 10.8 oz (306 g).
Process Connections: Two barbed connections for use with 1/8" (3.18 mm) or 3/16" (4.76 mm) ID tubing. Two compression fittings for use with 1/8" (3.18 mm) ID x 1/4" (6.35 mm) OD tubing for 475-7 & 475-8 only.
Agency Approvals: CE, FM approved to Class 1, Div 2, Groups A, B, C, D, T4 Ta = 70°C.

ACCESSORIES

Model	Description
A-402A	Carrying case, tough gray nylon pouch protects any Series 475 manometer, double zippered for quick and easy access, belt loop that snaps closed, 7-1/2"H x 3"W x 2-1/4"D (191 x 76 x 57 mm)
UHH-C1	Soft carrying case
A-47X-BOOT	Protective magnetic rubber boot



● Pitot tube: See pages 223-252 (Air Quality section)
 Process Tubing Options: See page 503 (Gage Tubing Accessories)



DUROMETER KING TESTER CORPORATION

Nothing beats it for accuracy, versatility, durability, and affordability.

With the advent of new requirements for quality control, accurate and reliable hardness testers are needed today more than ever. The King Brinell is designed to make impressions that are used to measure the hardness of a metal. A universally recognized tester, the King portable Brinell has a number of advantages.

Permanence - Impression can be checked and rechecked at any time.

Accuracy - Calibrated accurate to ½ of 1% of load. Can be used for higher loads up to 3,000 kg. Breaks through surface heat treatment to get to the core of the material.

Durability - Some King Portable Brinell testers have been working for over 60 years.

Versatility - Can be used in virtually any position: right side up, upside down or sideways. Take the tester to the metal, not the metal to the tester

On the market for over 60 years, King Brinell hardness testers are lightweight, easy to maneuver and require only one operator, making them ideal for use as portable or bench units. Versatile enough to test virtually any size and shape of metal specimen, King testers are easy to use. The operator simply places the specimen between the anvil and the test head, cranks the test head down onto the specimen, locking the tester in place, closes the pressure release valve, and pulls the hydraulic lever until the desired load is reached. The tester applies up to a 3,000 kg load on a 10mm ball, making a lasting impression, which is available for re-reading at any time. A by-pass valve is automatically activated at the calibrated load, eliminating the chance of overloading. The impression is then read and recorded by the operator using a Brinell microscope such as the King deep reading microscope or a Kingscan automatic Brinell microscope. The King Portable Brinell meets all international standards for Brinell testing including ASTM E-110, British Standard #240, Pt. 2, Sect. 1 and JIS Standards, and is calibrated to 1/2 of 1% of load on equipment traceable to NIST Standards.