INTRINSICALLY SAFE HANDHELD DIGITAL MANOMETER
Ranges from 1 in w.c. to 150 psid, ±0.5% Accuracy

The SERIES 475 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 (Φ), 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 (Φ) and AV calculator
• Field calibration of other instruments
• Monitoring or troubleshooting HVAC systems

SPECIFICATIONS
Service: Air and compatible combustible gases.
Wetted Materials: Consult factory.
Accuracy: ±0.5% FS, 60 to 78°F (15.6 to 25.6°C); ±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: ±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).
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 I, 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

MODEL CHART
<table>
<thead>
<tr>
<th>Model</th>
<th>Range</th>
<th>Metric Range</th>
<th>Maximum Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>475-000-FM</td>
<td>0 to 1.000 in w.c.</td>
<td>2491 kPa</td>
<td>5 psig</td>
</tr>
<tr>
<td>475-00-FM</td>
<td>0 to 4.000 in w.c.</td>
<td>996 kPa</td>
<td>5 psig</td>
</tr>
<tr>
<td>475-0-FM</td>
<td>0 to 10.00 in w.c.</td>
<td>2491 kPa</td>
<td>5 psig</td>
</tr>
<tr>
<td>475-1-FM</td>
<td>0 to 20.00 in w.c.</td>
<td>4982 kPa</td>
<td>10 psig</td>
</tr>
<tr>
<td>475-2-FM</td>
<td>0 to 40.00 in w.c.</td>
<td>996 kPa</td>
<td>10 psig</td>
</tr>
<tr>
<td>475-3-FM</td>
<td>0 to 200.0 in w.c.</td>
<td>4982 kPa</td>
<td>30 psig</td>
</tr>
<tr>
<td>475-4-FM</td>
<td>0 to 100.0 psi</td>
<td>.6895 bar</td>
<td>30 psig</td>
</tr>
<tr>
<td>475-5-FM</td>
<td>0 to 200.0 psi</td>
<td>1.379 bar</td>
<td>60 psig</td>
</tr>
<tr>
<td>475-6-FM</td>
<td>0 to 300.0 psi</td>
<td>2.069 bar</td>
<td>60 psig</td>
</tr>
<tr>
<td>475-7-FM</td>
<td>0 to 100.0 psi</td>
<td>.6895 bar</td>
<td>150 psig</td>
</tr>
<tr>
<td>475-8-FM</td>
<td>0 to 150.0 psi</td>
<td>10.34 bar</td>
<td>200 psig</td>
</tr>
</tbody>
</table>

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-307 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.
-NIST NIST traceable calibration certificate

Pitot tube: See pages 215-244 (Air Quality section)
Process Tubing Options: See page 499 (Gage Tubing Accessories)