The Series 475 Intrinsically 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 (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).
- **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) 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**
  - A-402A: Carrying case, tough gray nylon pouch protects any Series 475 manometer, double zipped 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

**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 pilot 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.
  - **-NIST**
    - NIST traceable calibration certificate
  - **Examples:** 475-1-AV: 475-000-AV

**MODEL CHART**

<table>
<thead>
<tr>
<th>Model</th>
<th>English 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>2.491 kPa</td>
<td>5 psig</td>
</tr>
<tr>
<td>475-00-FM</td>
<td>0 to 4.000 in w.c.</td>
<td>0.996 kPa</td>
<td>5 psig</td>
</tr>
<tr>
<td>475-0-FM</td>
<td>0 to 10.000 in w.c.</td>
<td>2.491 kPa</td>
<td>5 psig</td>
</tr>
<tr>
<td>475-1-FM</td>
<td>0 to 20.000 in w.c.</td>
<td>4.982 kPa</td>
<td>10 psig</td>
</tr>
<tr>
<td>475-2-FM</td>
<td>0 to 40.000 in w.c.</td>
<td>9.96 kPa</td>
<td>10 psig</td>
</tr>
<tr>
<td>475-3-FM</td>
<td>0 to 200.0 psi</td>
<td>49.82 kPa</td>
<td>30 psig</td>
</tr>
<tr>
<td>475-4-FM</td>
<td>0 to 10.00 psi</td>
<td>68.95 bar</td>
<td>30 psig</td>
</tr>
<tr>
<td>475-5-FM</td>
<td>0 to 20.00 psi</td>
<td>1.379 bar</td>
<td>60 psig</td>
</tr>
<tr>
<td>475-6-FM</td>
<td>0 to 30.00 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>6.895 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>

**PITOT TUBE OPTIONS**
- Pitot tube: See pages 205-234 (Air Quality section)

**PROCESS TUBING ACCESSORIES**
- Process Tubing Options: See page 455 (Gage Tubing Accessories)