The Series 477AV Handheld Digital Manometer is now available with pressure, flow, and velocity measurements along with a number of other convenient features. The built-in air velocity and flow calculations provide accuracy and conserve time and error associated with manual calculations. Also featured on this unit are adjustable zero and span values for calibrating in the field, as well as a damping feature to compensate for the fluctuating of readings.

**APPLICATIONS**
- Air flow monitoring
- Duct static pressure
- Duct air flow monitoring
- Stores up to 40 readings with minimum, maximum and average statistics
- Large, easy to read display with backlight for use in dark areas
- 9 selectable English and metric engineering units
- Rugged aluminum case protects instrument from damage during transport/use
- Calculates and displays air velocity and volumetric air flow

**FEATURES/BENEFITS**
- Calculates and displays air velocity and volumetric air flow
- Compensated temperature limits: 32 to 60°F (-20 to 80°C).
- 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.
- Pressure hysteresis: ±0.1% FS.
- 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 40.0°C).
- Pressure limits: See chart.
- Pressure units: psi, oz/in², mm w.c., cm w.c., cm Hg, mbar, Pa, kPa, hPa.
- Units of flow: cfm, m³/h, m³/s.
- Units of velocity: m/s, kph, knot.
- Units of pressure: psi, oz/in², mm w.c., cm w.c., cm Hg, mbar, Pa, kPa, hPa.
- Power requirements: 9 V alkaline battery, installed non-functional, user replaceable.
- Weight: 10.2 oz (289 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 477AV-7 and 477AV-8 only.
- Agency approval: CE.

**SPECIFICATIONS**
- Service: Air and compatible 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 40.0°C).
- Pressure hysteresis: ±0.1% FS.
- Pressure units: psi, oz/in², mm w.c., cm w.c., mm Hg, mbar, Pa, kPa, hPa.
- Units of Velocity: ft/min, fps, mph, fpm, mph, m/s, kph, knot.
- Units of Flow: cfm, m³/h, m³/s.
- Power requirements: 9 V alkaline battery, installed non-functional, user replaceable.
- Weight: 10.2 oz (289 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 477AV-7 and 477AV-8 only.
- Agency approval: CE.

**MODEL CHART**

<table>
<thead>
<tr>
<th>Model</th>
<th>Pressure Range</th>
<th>Velocity Range</th>
<th>Available Pressure Units</th>
<th>Maximum Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>477AV-000</td>
<td>0 to 1,000 in w.c.</td>
<td>0 to 1,000 in w.c.</td>
<td>psi, in Hg, kPa, mbar</td>
<td>2.491</td>
</tr>
<tr>
<td>477AV-00</td>
<td>0 to 1,000 in w.c.</td>
<td>0 to 1,000 in w.c.</td>
<td>psi, in Hg, kPa, mbar</td>
<td>2.491</td>
</tr>
<tr>
<td>477AV-0</td>
<td>0 to 1,000 in w.c.</td>
<td>0 to 1,000 in w.c.</td>
<td>psi, in Hg, kPa, mbar</td>
<td>2.491</td>
</tr>
<tr>
<td>477AV-1</td>
<td>0 to 20.0 psi</td>
<td>0 to 20.0 psi</td>
<td>psi, in Hg, kPa, mbar</td>
<td>2.491</td>
</tr>
<tr>
<td>477AV-2</td>
<td>0 to 20.0 psi</td>
<td>0 to 20.0 psi</td>
<td>psi, in Hg, kPa, mbar</td>
<td>2.491</td>
</tr>
<tr>
<td>477AV-3</td>
<td>0 to 20.0 psi</td>
<td>0 to 20.0 psi</td>
<td>psi, in Hg, kPa, mbar</td>
<td>2.491</td>
</tr>
<tr>
<td>477AV-4</td>
<td>0 to 20.0 psi</td>
<td>0 to 20.0 psi</td>
<td>psi, in Hg, kPa, mbar</td>
<td>2.491</td>
</tr>
<tr>
<td>477AV-5</td>
<td>0 to 20.0 psi</td>
<td>0 to 20.0 psi</td>
<td>psi, in Hg, kPa, mbar</td>
<td>2.491</td>
</tr>
<tr>
<td>477AV-6</td>
<td>0 to 20.0 psi</td>
<td>0 to 20.0 psi</td>
<td>psi, in Hg, kPa, mbar</td>
<td>2.491</td>
</tr>
<tr>
<td>477AV-7</td>
<td>0 to 20.0 psi</td>
<td>0 to 20.0 psi</td>
<td>psi, in Hg, kPa, mbar</td>
<td>2.491</td>
</tr>
<tr>
<td>477AV-8</td>
<td>0 to 20.0 psi</td>
<td>0 to 20.0 psi</td>
<td>psi, in Hg, kPa, mbar</td>
<td>2.491</td>
</tr>
</tbody>
</table>

**OPTIONS**

To order add suffix: Description
- NIST: NIST traceable calibration certificate

**ACCESSORIES**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-402A</td>
<td>Carrying case; tough gray nylon pouch protects any Series 477AV Manometer; double zippered for quick and easy access, with a belt loop that snaps closed; 7-1/2” x 4” x 2-1/4” D (191 x 76 x 57 mm)</td>
</tr>
<tr>
<td>UHH-C1</td>
<td>Soft carrying case</td>
</tr>
<tr>
<td>A-47X-BOOT</td>
<td>Protective magnetic rubber boot</td>
</tr>
</tbody>
</table>