



Series
477

Handheld Digital Manometer

Selectable Pressure Units, $\pm 0.5\%$ Accuracy, FM Approved Intrinsically Safe for Hazardous Locations, Class 1, Div. 1, Group A, B, C, D, T4

- New Low Pressure Ranges
- USB Option Comes with Cable and Software for Easy Data Downloading.
- Instant Selection from up to Nine English/Metric Units.
- Stores 40 Readings in Memory for Later Reference.
- Measure Positive, Negative or Differential Pressures.
- Large Easy-to-Read 0.4" LCD Display Includes Switchable Backlight for Great Visibility — Anywhere!
- Both Audible and Visual Overpressure Alarms.
- Includes + and - Indicators plus Low Battery Warning.
- Operates up to 100 Hours on a Single 9 Volt Battery.

New USB Connection Capability



Series 477 Handheld Digital Manometers are packed with features you need to make pressure measurement and recording faster, easier and more accurate than ever. First, you can instantly select from up to nine of the most widely used pressure units without having to waste time and risk mistakes with tedious conversions. Next, a non-volatile memory function enables storage of up to 40 readings — perfect for HVAC technicians making Pitot tube traverses of airflow readings across a duct. The FM approved models are intrinsically safe for hazardous locations, Class 1, Div. 1, Group A, B, C, D, T4.

When working in poorly lighted areas, just switch on the handy backlight feature. It automatically shuts itself off after 20 minutes to minimize battery drain. Electronic zeroing means you simply touch a single key to perfectly null out any minor pressure differences. A display HOLD key freezes the current pressure for those all-too-common situations where readings fluctuate. We even included an audible alarm to warn you of overpressure plus a visual alarm warning in case ambient noise levels are too high to hear the alarm. Audible alarm also confirms a value has been stored, eliminating the need to observe display during a duct traverse.

A new option for the Series 477 is a USB interface. Combined with the 477's datalogging capability, a user can now quickly and conveniently download the stored readings to any USB compatible device. Data manipulation can be easily accomplished in a multitude of word processing or spreadsheet programs. USB models come with a USB cable and a software CD.

SPECIFICATIONS

Service: Air and compatible gases. FM models air and compatible combustible gases.

Wetted Materials: Consult factory.

Accuracy: $\pm 0.5\%$ F.S., 60 to 78°F (15.6 to 25.6°C); $\pm 1.5\%$ F.S. from 32 to 60°F and 78 to 104°F (0 to 15.6°C and 25.6 to 40°C).

Pressure Hysteresis: $\pm 0.1\%$ of full scale.

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.

Response Time: 1 seconds.

Resolution: See chart.

Power Requirements: 9 volt alkaline battery. Battery included but not connected.

Weight: 10.2 oz (289 g).

Connections: Two barbed connections for use with 1/8" (3.18 mm) or 3/16" (4.76 mm) I.D. tubing. Two compression fittings for use with 1/8" (3.18 mm) I.D. x 1/4" (6.35 mm) O.D. tubing for 477-7-FM & 477-8-FM only.

Agency Approvals: CE and FM, USB models are not FM approved intrinsically safe.

A-402A Carrying Case — Tough gray nylon pouch protects any Series 477 Manometer. Double zippered for quick and easy access. With belt loop that snaps closed.

7-1/2"H x 3"W x 2-1/4"D (191 x 76 x 57 mm)



| Model Number* | Range | Available Pressure Units | | | | | | | | | Maximum Pressure |
|---------------|-----------------|--------------------------|-------|-------|-------|---------|-------|-------|---------|-------|------------------|
| | | bar | psi | in Hg | kPa | in w.c. | mm Hg | mbar | mm w.c. | Pa | |
| 477-000-FM | 0-1.000 in w.c. | | | .0736 | .2491 | 1.000 | 1.868 | 2.491 | 25.40 | 249.1 | 5 psig |
| 477-00-FM | 0-4.000 in w.c. | | .1445 | .2942 | 0.996 | 4.000 | 7.473 | 9.96 | 101.6 | 996 | 5 psig |
| 477-0-FM | 0-10.00 in w.c. | | .3613 | .7355 | 2.491 | 10.00 | 18.68 | 24.91 | 254.0 | 2491 | 5 psig |
| 477-1-FM | 0-20.00 in w.c. | .0498 | .7225 | 1.471 | 4.982 | 20.00 | 37.36 | 49.82 | 508.0 | 4982 | 10 psig |
| 477-2-FM | 0-40.00 in w.c. | .0996 | 1.445 | 2.942 | 9.96 | 40.00 | 74.73 | 99.6 | 1016 | 9964 | 10 psig |
| 477-3-FM | 0-200.0 in w.c. | .4982 | 7.225 | 14.71 | 49.82 | 200.0 | 373.6 | 498.2 | 5080 | | 30 psig |
| 477-4-FM | 0-10.00 psi | .6895 | 10.00 | 20.36 | 68.95 | 276.8 | 517.1 | 689.5 | 7031 | | 30 psig |
| 477-5-FM | 0-20.00 psi | 1.379 | 20.00 | 40.72 | 137.9 | 553.6 | 1034 | 1379 | | | 60 psig |
| 477-6-FM | 0-30.00 psi | 2.069 | 30.00 | 61.08 | 206.9 | 830.4 | 1551 | 2069 | | | 60 psig |
| 477-7-FM | 0-100.0 psi | 6.895 | 100.0 | 203.6 | 689.5 | 2768 | 5171 | 6895 | | | 150 psig |
| 477-8-FM | 0-150.0 psi | 10.34 | 150.0 | 305.4 | 1034 | 4152 | 7757 | | | | 200 psig |

*Note: USB models include a software CD and cable. Change "FM" to "USB". Example: 477-2-FM becomes 477-2-USB