Series 477

Handheld Digital Manometer

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

- Instant Selection from up to Nine English/Metric Units.
- Stores 20 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.
- FM & CE Approved

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 20 readings – perfect for HVAC technicians making Pitot tube traverses of airflow readings across a duct. The Series 477 is FM approved 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 2 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.

Clear, concise operating instructions for all functions are printed on the rear of the rugged extruded aluminum case for quick reference. One-piece front membrane fully protects all keys from dust and moisture; wipes clean in seconds. Detailed written instructions, a wrist strap and 9 volt alkaline battery are included.

Now FM Approved

FM APPROVED

CE

SPECIFICATIONS

Service: Air and compatible gases.
Wetted Materials: Consult factory.
Accuracy: ±0.5% F.S., 60 to 78°F (15.6 to 25.6°C); ±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: ±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) 4-1/2″ digit liquid crystal.
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 3/16″ (4.76 mm) O.D. tubing for 477-6-FM & 477-7-FM only.
Agency Approvals: FM, CE.

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.

7½"H x 3"W x 2¼"D
(191 x 76 x 57 mm)

STOCKED MODELS in bold

Model Number	English Range	Metric Range	Maximum Pressure
477-1-FM	0-20.00 in. w.c.	0-5 kPa	11 psi (0.75 bar)
477-2-FM	0-40.00 in. w.c.	0-10 kPa	11 psi (0.75 bar)
477-3-FM	0-200.0 in. w.c.	0-50 kPa	29 psi (1.99 bar)
477-4-FM	0-10.00 psid	0-70 kPa	58 psi (3.99 bar)
477-5-FM	0-30.00 psid	0-200 kPa	58 psi (3.99 bar)
477-6-FM	0-100.0 psid	0-700 kPa	150 psi (10.3 bar)
477-7-FM	0-150.0 psid	0-1000 kPa	150 psi (10.3 bar)

PRESSURE UNITS AVAILABLE

Model Number	psid	in. H_2O	mm H_2O	in. Hg	mm Hg	Pa	kPa	bar	mbar
477-1-FM	▲	▲	▲	▲	▲	▲	▲	▲	▲
477-2-FM	▲	▲	▲	▲	▲	▲	▲	▲	▲
477-3-FM	▲	▲	▲	▲	▲		▲	▲	▲
477-4-FM	▲	▲	▲	▲	▲		▲	▲	▲
477-5-FM	▲	▲		▲	▲		▲	▲	▲
477-6-FM	▲	▲		▲	▲		▲	▲	▲
477-7-FM	▲	▲		▲	▲		▲	▲	▲