



Series 475

# Mk III Handheld Digital Manometer

Ranges from 1 in. w.c. to 150 psid, ±0.5% Accuracy



Pressure

- **New LOW Range Option 0-1.00 in. w.c.**
- Measures Positive, Negative and Differential Pressures
- Rugged, Extruded Aluminum Case
- Lightweight, Fast and Easy to Use
- Dual Calibration with English and Metric Units
- FM Approved

## Applications

The Dwyer Series 475-FM Mark III Handheld Digital Manometer is ideal for field calibration, monitoring or trouble shooting HVAC systems, clean rooms, or a wide range of other low pressure pneumatic systems. This handy instrument 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 Series 475-FM is approved and is intrinsically safe for hazardous locations, Class 1, Div. 1, Group A, B, C, D, T4. Its simple operation and easy to read digital display make it an indispensable test instrument for the plant engineer, industrial hygienist and HVAC technician. When used with a Dwyer Pitot tube (see Flow and Air Velocity), the Series 475-FM Mark III can also be used as an air velocity gage. See the complete 475-1-FM-AV kit described below.

The Series 475-FM Mark III is housed in a durable extruded aluminum case with its solid state circuitry mounted on a tough fiberglass epoxy circuit board. A standard 9 volt battery provides up to 100 hours of operation. Dual push pads on the front panel control on/off operation and English or metric pressure unit selection. No set-up or leveling. Zero adjust knob is conveniently located on top. The large 1/2" LCD display is easy to read, minimizing data collection errors. Units include a "low battery" indicator. The pressure sensor used is a highly stable silicon piezoresistive device. Standard connections are dual sized for 1/8" or 3/16" I.D. vinyl or rubber tubing. Complete instructions are conveniently printed on rear of housing.



## NEW! Lower Range

## 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:** 0.5" liquid crystal. 3-1/2 digits.

**Resolution:** See chart.

**Power Requirements:** 9 volt alkaline battery. Battery not connected.

**Weight:** 10.8 oz (306 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 475-7-FM & 475-8-FM only.

**Agency Approvals:** FM, CE.

**A-402A CARRYING CASE** — Tough gray nylon pouch protects any Series 475 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). . . . .



## STOCKED MODELS

Model Number	English Range	Metric Range	Maximum Pressure
475-000-FM	0-1.000 in. w.c.	0-.249 kPa	10 in. w.c./2.5 kPa
475-00-FM	0-4.00 in. w.c.	0-.995 kPa	5 psig/35 kPa
475-0-FM	0-10.00 in. w.c.	0-2.49 kPa	5 psig/35 kPa
475-1-FM	0-19.99 in. w.c.	0-4.97 kPa	10 psig/68.9 kPa
475-2-FM	0-40.0 in. w.c.	0-9.95 kPa	10 psig/68.9 kPa
475-3-FM	0-199.9 in. w.c.	0-49.7 kPa	30 psig/207 kPa
475-4-FM	0-10.00 psid	0-.689 bar	30 psig/207 bar
475-5-FM	0-19.99 psid	0-1.378 bar	60 psig/4 bar
475-6-FM	0-30.0 psid	0-2.07 bar	60 psig/4 bar
475-7-FM	0-100 psid	0-6.89 bar	150 psig/10 bar
475-8-FM	0-150 psid	0-10.34 bar	200 psig/14 bar



**475-AV AIR VELOCITY KIT** — Includes the Series 475-FM Manometer, two A-303 static pressure tips two 9 ft. lengths 3/8" I.D. rubber tubing, no. 166-6-CF Pitot 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. To order, add AV suffix to any standard 475 model no.  
Example: 475-1-FM-AV . . . . .  
475-000-FM-AV . . . . .