

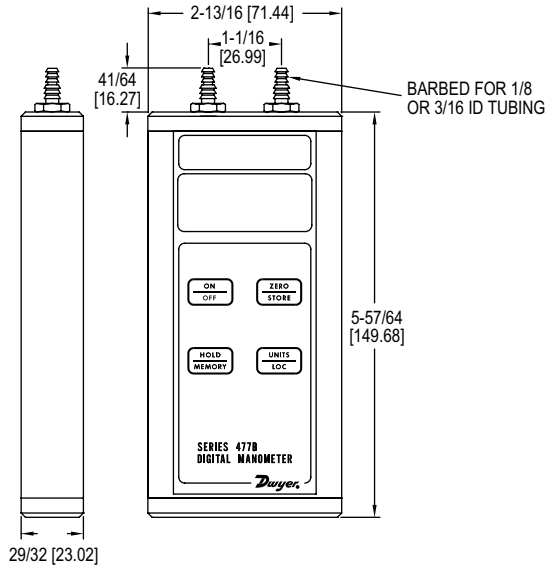


SERIES 477B

# HANDHELD DIGITAL MANOMETER

Precise Air Pressure Measurement,  $\pm 0.1\%$  Accuracy

CALIBRATION SERVICES AVAILABLE



The **Series 477B Handheld Digital Manometer** is a versatile, hand-held, battery operated manometer available in several basic ranges from 0-20 in w.c. up to 100 psi. All models measure either positive, negative or differential pressures with  $\pm 0.10\%$  of full-scale accuracy. You can select from up to seven common English and metric pressure units so conversions are not necessary. A memory function allows storage of up to 40 readings for later recall and a backlight provides auxiliary lighting for hard-to-see locations. Also standard are a hold feature plus both visual and audible overpressure alarms.

**BENEFITS/FEATURES**

- Precise 0.1% FS accuracy provides four times better accuracy than most standard manometer/gages
- Aluminum housing protects instrument against damage
- 40 readings in internal memory reduces time to record data

**APPLICATIONS**

- Lab calibration of other pressure instruments
- Air velocity/air flow measurements in commercial buildings

**SPECIFICATIONS**

**Service:** Air and compatible gases.  
**Wetted Parts:** Consult factory.  
**Accuracy:**  $\pm 0.10\%$  FS from 60 to 78°F (15.6 to 25.6°C);  $\pm 1\%$  FS from 32 to 60 and 78 to 104°F (0 to 15.6 and 25.6 to 40°C).  
**Pressure Hysteresis:**  $\pm 0.1\%$  FS.  
**Pressure Limits:** See chart.  
**Temperature Limits:** 0 to 140°F (-17.8 to 60°C).  
**Storage Temperature Limits:** -4 to 176°F (-20 to 80°C).  
**Display:** 4-digit LCD (.425" H x .234" W digits).  
**Resolution:** See chart.  
**Power Requirements:** 9 V alkaline battery. Battery included but not connected.  
**Connections:** Two barbed connections for use with 1/8" (3.18 mm) or 3/16" (4.76 mm) I.D. tubing for 477B-1, 477B-2, 477B-3, 477B-4 and 477B-5 only. Two compression fittings for use with 1/8" (3.18 mm) I.D. x 1/4" (6.35 mm) O.D. tubing for 477B-6 and 477B-7 only.  
**Weight:** 10.2 oz (289 g).  
**Agency Approvals:** CE.

MODEL CHART												
Model	Range	Available Pressure Units										Maximum Pressure
		bar	psi	in Hg	kPa	in w.c.	mm Hg	mbar	ft w.c.	mm w.c.	Pa	
477B-1	0 to 20.00 in w.c.	.0498	.7225	1.471	4.982	20.00	37.36	49.82	1.667	508.0	4982	3 psig
477B-2	0 to 40.00 in w.c.	.0996	1.445	2.942	9.96	40.00	74.73	99.6	3.333	1016	9964	3 psig
477B-3	0 to 200.0 in w.c.	.4982	7.225	14.71	49.82	200.0	373.6	498.2	16.67	5080	-	15 psig
477B-4	0 to 10.00 psi	.6895	10.00	20.36	68.95	276.8	517.1	689.5	23.07	7031	-	30 psig
477B-5	0 to 30.00 psi	2.069	30.00	61.08	206.9	830.4	1551	2069	69.20	-	-	60 psig
477B-6	0 to 50.00 psi	3.447	50.00	101.8	344.7	1384	2585	3447	115.3	-	-	100 psig
477B-7	0 to 100.0 psi	6.895	100.0	203.6	689.5	2768	5171	6895	230.7	-	-	200 psig

OPTIONS	
To order add suffix:	Description
-NIST	NIST traceable calibration certificate
Example: 477B-1-NIST	

ACCESSORIES	
Model	Description
A-402A	Carrying case; tough gray nylon pouch protects any Series 477B Manometer; double zippered for quick and easy access, with a belt loop that snaps closed; 7-1/2"H x 3"W x 2-1/4"D (191 x 76 x 57 mm)
A-47X-BOOT	Protective magnetic rubber boot



Manometers, Portable