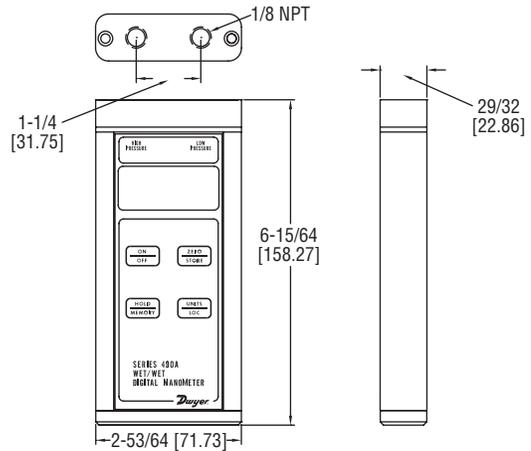


# WET/WET HANDHELD DIGITAL MANOMETER

Liquid & Gas Pressure Measurement,  $\pm 0.5\%$  FS Accuracy



The **SERIES 490A** Digital Manometers are versatile, hand-held, battery operated manometers available in several basic ranges for positive or positive differential pressure measurement and can tolerate most liquid media compatible with 316LSS. A new feature added to the Series 490A is a field adjustable damping, which allows the user to choose the level of display averaging rate corresponding to the fluctuation level common in many applications.

#### FEATURES/BENEFITS

- Up to 0.5% accuracy
- Seven user-selectable English and metric units
- Stores up to 40 readings for later recall
- Backlight for use in dim areas

#### APPLICATIONS

- Chiller to coils for freeze protection
- HEPA filters to determine when a filter needs to be changed
- Measure pressure drop across pumps
- Valves to determine valve position

#### SPECIFICATIONS

**Service:** Compatible gases & liquids.  
**Wetted Materials:** Without valve: 316L SS; Additional wetted parts with 3-way valve option: Buna-N, silicone grease, PTFE, brass 360, copper, reinforced acetal copolymer.  
**Accuracy:**  $\pm 0.5\%$  FS, 60 to 78°F (15.6 to 25.6°C);  $\pm 1.5\%$  FS from 32 to 60°F and 78 to 104°F (0 to 15.6°C and 25.6 to 40°C).  
**Pressure Hysteresis:**  $\pm 0.1\%$  FS.  
**Pressure Limits:** See chart.

**Temperature Limits:** 32 to 140°F (0 to 60°C).  
**Storage Temperature Limits:** -4 to 176°F (-20 to 80°C).  
**Display:** 0.42" (10.6 mm) 4 digit LCD.  
**Resolution:** See chart.  
**Power Requirements:** 9 V alkaline battery, installed non-functional, user replaceable.  
**Weight:** 14.1 oz (400 g).  
**Process Connections:** Two 1/8" (3.18 mm) female NPT.  
**Agency Approvals:** CE.

Model	Range psi	Available Pressure Units								Maximum Pressure
		bar	psi	in Hg	kPa	in w.c.	mm Hg	mbar	ft w.c.	
490A-1	0 to 15.00	1.034	15.00	30.54	103.4	415.2	775.7	1034	34.60	30 psig
490A-2	0 to 30.00	2.069	30.00	61.08	206.9	830.4	1551	2069	69.20	60 psig
490A-3	0 to 50.00	3.447	50.00	101.8	344.7	1384	2585	3447	115.3	100 psig
490A-4	0 to 100.0	6.895	100.0	203.6	689.5	2768	5171	6895	230.7	200 psig
490A-5	0 to 500.0	34.47	500.0	1018	3447	-	-	-	1153	1000 psig
490A-6	0 to 200.0	13.79	200.0	407.2	1379	5536	-	-	461.3	400 psig

OPTION	
To order add suffix:	Description
-NIST	NIST traceable calibration certificate
Example: 490A-1-NIST	
-3V	3-way vent valve with bleed screw rated up to 100 psi
Example: 490A-1-3V	



-3V Option  
3-Way Vent Valve

ACCESSORY	
Model	Description
A-402A	Carrying case, tough gray nylon pouch protects any Series 490A manometer, double zippered for quick and easy access, belt loop that snaps closed, 7-1/2"H x 3"W x 2-1/4"D (191 x 76 x 57 mm)