



Series  
490

# Wet/Wet Handheld Digital Manometer

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



**Series 490 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 memory function allows storage of up to 40 readings for later recall and a backlight provides auxiliary lighting for hard-to-see locations. Standard are a hold feature and both visual and audible overpressure alarms. A new feature added to the Series 490 is a field adjustable damping. This allows the user to choose the level of display averaging rate corresponding to the fluctuation level common in many applications. A 9 V alkaline battery is included that provides up to 100 hours of operation.

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

**A-402A, Carrying Case** — Tough gray nylon pouch protects any Series 490 Wet/Wet Handheld Digital 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)



## 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:**  $\pm 0.5\%$  full-scale, 60 to 78°F (15.6 to 25.6°C);  $\pm 1.5\%$  full-scale 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:** 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.

## OPTION

For NIST traceable calibration certificate, add suffix -NIST to model numbers.  
 Example: 490-1-NIST.