

## **HYDRONIC DIFFERENTIAL PRESSURE MANOMETER** Liquid and Gas Pressure Measurement, $\pm 0.5\%$ FS Accuracy





The Series 490A Hydronic Differential Pressure Manometer is 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

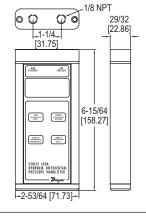
A new feature added to the Series 490A is a field adjustable damping, which allows the user to choose the level of display averaging rate corresponding to the fluctuation level common in many applications.

## **FEATURES/BENEFITS**

- · Seven user-selectable English and metric units
- · Stores up to 40 readings for later recall
- · Backlight for use in dim areas
- · Digital dampening for low pressure high resolution logging stability
- · Automatic resolution adjustment for finer control

## **APPLICATIONS**

- · Chiller to coils for freeze protection
- · Hydronic valve balancing
- · Measure pressure drop across pumps
- · Refrigerant pressure testing



## **SPECIFICATIONS**

Service: Compatible gases and liquids.

Wetted Materials: Without valve: 316L SS, -3V option: 316L SS, Buna-N, silicone,

grease, PTFE, brass 360, copper, reinforced acetal copolymer.

Accuracy: ±0.5% FS, 60 to 78°F (15.6 to 25.6°C); ±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: ±0.1% FS Pressure Limits: See chart.

Electronic 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 CHART										
	Range	Availa	Available Pressure Units & Resolution**  Maximum							
Model	psi	bar	psi	in Hg	kPa	in w.c.	mm Hg	mbar	ft w.c.	Pressure
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	9999*	9999*	9999*	1153	1000 psig
490A-6	0 to 200.0	13.79	200.0	407.2	1379	5536	9999*	9999*	461.3	400 psig
*Digits w	*Digits will display smaller units until all 4 digits are exceeded									

\*\*Readings less than 10% of range will provide one additional decimal place than shown for higher resolution.

OPTIONS					
To order add suffix:	Description				
-NIST	Includes NIST Calibration traceable				
	certificate				
Example: 490A-1-NIST					
-3V	3-way vent valve with bleed screw rated				
	up to 100 psi				
<b>Example:</b> 490A-1-3V					





ACCESSORIES					
Model	Description				
A-47X-BOOT	Rubber boot for manometers (manometer no included)				
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				
A-HKIT-HOSES	One pair red & blue 60" SAE replacement hoses for the				
	490A-HKIT, each with integral ball valve				
A-HKIT-500	Piercing gage adapter for the 490A-HKIT, 1/8" dia x 1-1/2" length				
	(2 per kit)				
A-HKIT-500XL	Piercing gage adapter for the 490A-HKIT, 1/8" dia x 3" length				
	(2 per kit)				
A-HKIT-510	Piercing gage adapter for the 490A-HKIT, 1/16" dia x 1-1/2"				
	length (2 per kit)				
<b>NIST Calibration</b>	Please contact your regional Dwyer distributor or Dwyer				
	International Sales Office for scheduling your NIST recertification				



A-47X-ROOT (manometer not included)



A-402A