

HYDRONIC DIFFERENTIAL PRESSURE METER KIT

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



The **SERIES 490A-HKIT** features the 490A Hydronic Differential Pressure Manometer and all the necessary attachments and accessories to meet all your balancing, measuring, and pressure needs. The manometer featured in this kit is a versatile, handheld, battery operated manometer available in several ranges for positive or positive differential pressure measurement and can tolerate most liquid media compatible with 316LSS.

FEATURES/BENEFITS

- Digital dampening for low pressure stability
- Automatic resolution adjustment for finer control
- Hard carrying case protects products
- Stores up to 40 readings for later recall
- Backlight for use in dim areas
- Magnetic back mount for ease of use
- Rubber boot for easy handling and all day comfort

APPLICATIONS

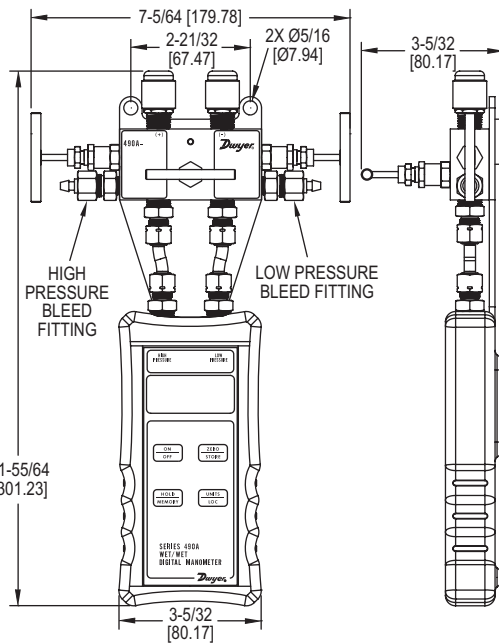
- Chiller to coils for freeze protection
- Hydronic valve balancing
- Measure pressure drop across pumps
- Refrigerant pressure testing

STANDARD KIT INCLUDES:

- Two (2) 6ft high pressure rated tubing with shut off valves
- One (1) high pressure 3-way valve
- Two (2) controlled bleed valves
- One (1) 8 ft Poly tubing for purges
- One (1) hard traveling lockable case with non-absorbent foam
- One (1) handheld carrying strap
- Two (2) 1/16" x 1-1/2" pressure gage adapters
- Two (2) 1/8" x 3" pressure gage adapters
- Two (2) 1/8" x 1-1/2" pressure gage adapters
- Two (2) Male 90° Flare to 1/4" NPT fittings
- Two (2) Male Flare to 1/4" NPT coupler fittings
- One (1) adjustable 8" wrench
- PTFE Thread Tape
- One (1) magnetic protective rubber boot
- NIST Calibration Certificate Standard



A-47X-BOOT
(Manometer
not included)



SPECIFICATIONS

Service: Compatible gases and liquids.
Wetted Materials: 316LSS, PTFE, Brass, Copper.
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.
Electronic Temperature Limits: 32 to 140°F (0 to 60°C).
Process Temperature Limits: -20 to 180°F.
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: 3.6 lb.
Process Connections: Two male 45 Flare 1/4".
Agency Approvals: CE.

MODEL CHART

Model	Range (psi)	Available Pressure Units & Resolution**								Maximum Pressure
		bar	psi	in Hg	kPa	in w.c.	mm Hg	mbar	ft w.c.	
490A-1-HKIT	0 to 15	1.034	15.00	30.54	103.4	415.2	775.7	1034	34.60	30 psig
490A-2-HKIT	0 to 30	2.069	30.00	61.08	206.9	830.4	1551	2069	69.20	60 psig
490A-3-HKIT	0 to 50	3.447	50.00	101.8	344.7	1384	2585	3447	115.3	100 psig
490A-4-HKIT	0 to 100	6.895	100.0	203.6	689.5	2768	5171	6895	230.7	200 psig
490A-5-HKIT	0 to 500	34.47	500.0	1018	3447	9999*	9999*	9999*	1153	1000 psig
490A-6-HKIT	0 to 200	13.79	200.0	407.2	1379	5536	9999*	9999*	461.3	400 psig

*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.

ACCESSORIES

Model	Description
A-47X-BOOT	Rubber boot for manometers (manometer no included)
A-HKIT-AFIT	Adapter fitting kit for the 490A-HKIT, includes pairs of SAE 1/4" adapters and elbow fittings
A-HKIT-BFIT	Adapter fitting kit for the 490A-HKIT, includes pair of bleed fitting assemblies
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)
NIST Calibration	Please contact your regional Dwyer distributor or Dwyer International Sales Office for scheduling your NIST recertification

USA: California Proposition 65