



DIGITAL  
Manometers



SERIES	477AV	475	476A	478A	477B	HM35	HM28	490A
<b>Range</b>	1 in w.c. to 150 psi (.25 kPa to 10.34 bar)	1 in w.c. to 150 psi (.25 kPa to 10.34 bar)	±20 in w.c. (±5 kPa)	±4 in w.c.; ±60 in w.c. (±1 kPa; ±15 kPa)	20 in w.c. to 100 psi (4.982 to 689.5 kPa)	10 in w.c. to 1305 psi (2.5 to 9000 kPa)	10 in w.c. to 245 psi (2.5 to 1700 kPa)	15 to 200 psi (1 to 13.8 bar)
<b>Service</b>	Air and compatible gases	Air and compatible combustible gases	Air and compatible gases	Air and compatible gases	Air and compatible gases	Air and compatible gases	Air and compatible gases	Compatible gases and liquids
<b>Wetted Materials</b>	Consult factory	Consult factory	Consult factory	Consult factory	Consult factory	18/8 SS	18/8 SS	316L SS; With 3-way valve: Buna-N, silicone grease, PTFE, brass 360, copper, reinforced acetal copolymer
<b>Accuracy</b>	±0.5% FS	±0.5% FS	±1.0% FS	±0.5% FS	±0.1% FS	(±0.2% FS, ±0.1% FS, or ±0.05% FS) ±1 digit	(±0.2% FS, ±0.1% FS, or ±0.05% FS) ±1 digit	±0.5% FS
<b>Pressure Limits</b>	5 psig (1 to 10 in w.c.); 10 psig (20 to 40 in w.c.); 30 psig (200 in w.c. to 10 psi); 60 psig (20 to 30 psi); 150 psig (100 psi); 200 psig (150 psi)	5 psig (1 to 10 in w.c.); 10 psig (20 to 40 in w.c.); 30 psig (200 in w.c. to 10 psi); 60 psig (20 to 30 psi); 150 psig (100 psi); 200 psig (150 psi)	5 psig (.34 bar)	5 psig (.34 bar)	3 psig (20 to 40 in w.c.); 15 psig (200 in w.c.); 30 psig (10 psi); 60 psig (30 psi); 100 psig (50 psi); 200 psig (100 psi)	N/A	N/A	30 psig (15 psi); 60 psig (30 psi); 100 psig (50 psi); 200 psig (100 psi); 400 psig (200 psi); 1000 psig (500 psi)
<b>Temperature Limits</b>	0 to 140°F (-17.8 to 60°C)	0 to 140°F (-17.8 to 60°C)	0 to 140°F (-17.8 to 60°C)	0 to 140°F (-17.8 to 60°C)	0 to 140°F (-17.8 to 60°C)	32 to 122°F (0 to 50°C)	23 to 122°F (-5 to 50°C)	32 to 140°F (0 to 60°C)
<b>Comp. Temp. Limits</b>	32 to 104°F (0 to 40°C)	32 to 104°F (0 to 40°C)	32 to 104°F (0 to 40°C)	32 to 104°F (0 to 40°C)	N/A	N/A	N/A	N/A
<b>Housing Protection</b>	Rugged aluminum housing	Rugged aluminum housing	Rugged aluminum housing	Rugged aluminum housing	Rugged aluminum housing	IP54 (NEMA 3)	IP54 (NEMA 3)	Rugged aluminum housing
<b>Display</b>	4-digit backlit LCD	4-digit LCD	4-digit LCD	4-digit LCD	4-digit backlit LCD	Graphical backlit LCD, 128 x 64 points	2 line, 16 character, dot matrix LCD, with switchable display sizes	4-digit backlit LCD
<b>Memory</b>	40 readings	N/A	N/A	N/A	40 readings	10,742 readings	10,742 readings	Up to 40 readings
<b>Process Connection</b>	(2) Barbed connections for use with 1/8" or 3/16" ID tubing (Compression fittings for -7, -8 ranges)	(2) Barbed connections for use with 1/8" or 3/16" ID tubing (Compression fittings for -7, -8 ranges)	Barbed connection for use with 3/16" or 1/4" ID tubing	(2) Barbed connection for use with 3/16" or 1/4" ID tubing	(2) Barbed connections for use with 1/8" or 3/16" ID tubing (Compression fittings for -6, -7 ranges)	Hose 4/6 mm or 1/8" NPT	Hose 4/6 mm or 1/8" NPT	(2) 1/8" female NPT
<b>Approvals</b>	CE	CE, FM	CE	CE	CE	N/A	N/A	CE



## THERMO Anemometers



SERIES	471B	473B
Air Velocity Range	0 to 6000 FPM (0 to 30 m/s)	40 to 5000 FPM (0.2 to 25 m/s)
Air Velocity Accuracy	±3% FS	±1.5% of reading ±20 FPM
Temperature Range	-40 to 212°F (-40 to 100°C)	-20 to 212°F (-29 to 100°C)
Temperature Accuracy	±0.5°F (±0.28°C)	±0.54°F (±0.3°C)
Humidity Range	N/A	0 to 100% RH
Humidity Accuracy	N/A	±2% RH
Air Volume Range	19,999 in selected flow units	19,999 in selected flow units
Wet Bulb Range	N/A	N/A
Meter Temperature Range	Process Air Velocity: -20 to 212°F (-29 to 100°C); Process Temperature: -40 to 212°F (-40 to 100°C); Ambient: 5 to 125°F (-15 to 51°C)	Process: -20 to 212°F (-29 to 100°C); Ambient: 5 to 125°F (-15 to 51°C)
Meter Humidity Limits	N/A	N/A
Display	4.5-digit backlit LCD	4.5-digit backlit LCD
Approvals	CE	N/A

## CALIBRATION Pumps



SERIES	HP	CHP	A-396A	PCHP	HCHP	LPCP	BCHP
Output Range	-27" Hg to 45 psig (-0.91 to 3 bar)	-28.8" Hg to 100 psi (-0.975 to 3.4 bar)	<1 in w.c. to 72 psig (5 bar)	-28" Hg to 600 psi (-0.945 to 40 bar)	0 to 10,000 psi (0 to 700 bar)	-5.8 psi to 5.8 psi (-0.4 to 0.4 bar)	-28" Hg to 870 psi (-0.95 to 60 bar)
Process Connection	1/4" female NPT	1/8" female NPT	Barbed fitting or 1/8" female NPT	1/4" female NPT/BSPT	1/4" female NPT/BSPT	M20x1.5 or 1/4" female NPT	1/4" female BSPT (NPT available)
Gage Connection	1/4" female NPT	1/8" female NPT	N/A	1/8" female NPT/BSPT	1/4" female NPT/BSPT	M20x1.5 or 1/4" female NPT	1/2" female BSPT
Materials	N/A	Acetel plastic and anodized aluminum	N/A	SS fittings, anodized aluminum housing, plastic/rubber handles, and nitrile O-rings	SS, polyurethane, anodized hard-coat aluminum, PTFE, and nitrile	Ram/adapters: 316 SS, Body: Steel/aluminum; Seals: Buna-N	Anodized aluminum, brass, and ABS