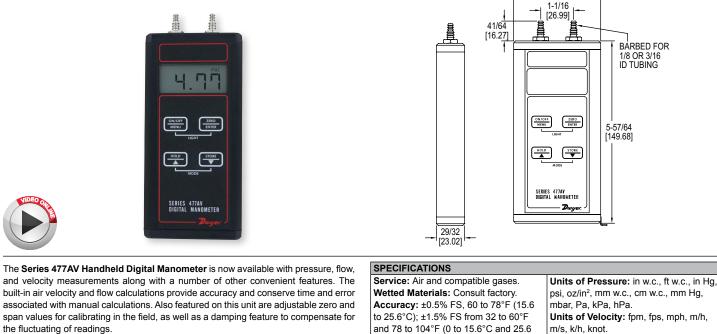
Dwyer. SERIES 477AV **HANDHELD DIGITAL MANOMETER** Measures Pressure, Flow and Velocity; ±0.5% Accuracy



FEATURES/BENEFITS

- · Calculates and displays air velocity and volumetric air flow
- · Rugged aluminum case protects instrument from damage during transport/use
- · 9 selectable English and metric engineering units
- · Large, easy to read display with backlight for use in dark areas
- · Stores up to 40 readings with minimum, maximum and average statistics

APPLICATIONS

- · Air flow monitoring
- · Duct static pressure

SPECIFICATIONS	
Service: Air and compatible gases.	Units of Pressure: in
Wetted Materials: Consult factory.	psi, oz/in2, mm w.c., o
Accuracy: ±0.5% FS, 60 to 78°F (15.6	mbar, Pa, kPa, hPa.
to 25.6°C); ±1.5% FS from 32 to 60°F	Units of Velocity: fp
and 78 to 104°F (0 to 15.6°C and 25.6	m/s, k/h, knot.
to 40.0°C).	Units of Flow: cfm, r
Pressure Hysteresis: ±0.1% FS.	Power Requirement
Pressure Limits: See chart.	battery, installed non-
Temperature Limits: 0 to 140°F (-17.8	replaceable.
to 60°C).	Weight: 10.2 oz (289
Compensated Temperature Limits: 32	Process Connection
to 104°F (0 to 40°C).	connections for use w
Storage Temperature Limits: -4 to	mm) or 3/16" (4.76 m
176°F (-20 to 80°C).	compression fittings
Display: 0.42" (10.6 mm) 4 digit LCD.	(3.18 mm) ID x 1/4" (
Resolution: See chart.	for 477AV-7 and 477
	Agency Approvals:

2-13/16 [71.44] -

pm, fps, mph, m/h, m³/h, m³/s. nts: 9 V alkaline n-functional, user 39 g). ons: Two barbed with 1/8" (3.18 mm) ID tubing. Two

for use with 1/8" (6.35 mm) OD tubing AV-8 only. CE.

MODEL CHART																
		Available Pressure Units														
	Pressure						in	mm		mm					cm	Maximum
Model	Range	fpm	m/s	psi	in Hg	kPa	w.c.	Hg	mbar	w.c.	Ра	ft w.c.	oz/in ²	hPa	w.c.	Pressure
477AV-000	0 to 1.000 in w.c.	4004	20.34	-	0.0736	0.2491	1.000	1.868	2.491	25.40	249.1	0.0833	0.5780	2.491	2.540	5 psig
477AV-00	0 to 4.000 in w.c.	8009	40.69	0.1445	0.2942	0.996	4.000	7.473	9.96	101.6	996	0.3333	2.312	9.964	10.16	5 psig
477AV-0	0 to 10.00 in w.c.	1.266k	64.33	0.3613	0.7355	2.491	10.00	18.68	24.91	254.0	2491	0.8333	5.780	24.91	25.40	5 psig
477AV-1	0 to 20.00 in w.c.	1.791k	90.97	0.7225	1.471	4.982	20.00	37.36	49.82	508.0	4982	1.667	11.56	49.82	50.80	10 psig
477AV-2	0 to 40.00 in w.c.	25.33k	128.7	1.445	2.942	9.96	40.00	74.73	99.6	1016	9964	3.333	23.12	99.64	101.6	10 psig
477AV-3	0 to 200.0 in w.c.	56.63k	287.7	7.225	14.71	49.82	200.0	373.6	498.2	5080	-	16.67	115.6	498.2	508.0	30 psig
477AV-4	0 to 10.00 psi	66.62k	338.4	10.00	20.36	68.95	276.8	517.1	689.5	7031	-	13.07	160.0	689.5	703.1	30 psig
477AV-5	0 to 20.00 psi	94.22k	478.6	20.00	40.72	137.9	553.6	1034	1379	-	-	46.13	320.0	1379	1406	60 psig
477AV-6	0 to 30.00 psi	115.4k	586.2	30.00	61.08	206.9	830.4	1551	2069	-	-	69.20	480.0	2068	2109	60 psig
477AV-7	0 to 100.0 psi	210.7k	1070	100.0	203.6	689.5	2768	5171	6895	-	-	230.7	1600	6895	7031	150 psig
477AV-8	0 to 150.0 psi	258.0k	1311	150.0	305.4	1034	4152	7757	-	-	-	346.0	2400	-	-	200 psig

OPTIONS			
To order add suffix:	Description		
-NIST	NIST traceable calibration certificate		
Example: 477AV-1-NIST			

ACCESSORIES						
Model	Description					
	Carrying case; tough gray nylon pouch protects any Series 477AV Manometer; double zippered for quick and easy access, with a belt loop that snaps closed; 7-1/2"H x 3"W x 2-1/4"D (191 x 76 x 57 mm)					
UHH-C1	Soft carrying case					
A-47X-BOOT	Protective magnetic rubber boot					





A-47X-BOOT

CE

TEST & DATA

(manometer not included)

Dwyer SERIES 475-AV & 477-AV KITS AIR VELOCITY KITS Digital Manometer and Pitot Tube for Balancing System Air Flows



475-XX-FM-AV

475-XXT-FM-AV

477-XXXT-AV

Convenient all-in-one Series 475-AV & 477-AV Air Velocity Kits are small, light and easy to use. No set-up or leveling needed. An indispensable test kit for the plant engineer, and HVAC technician that must balance system air flows at start-up.

FEATURES/BENEFITS

- · Comprehensive kit for HVAC and industrial applications
- · Rugged construction for longevity
- · Conversion from pressure to air velocity made easy
- · Proudly assembled in the USA

APPLICATIONS

- · Building commissioning
- · Building HVAC test and balance
- · Critical environment testing
- Industrial process verification Instrumentation validation

MODEL CHART - 475-XX-FM-AV					
Model	Range				
475-00-FM-AV	0-4.000 in w.c.				
475-0-FM-AV	0-10.00 in w.c.				
475-1-FM-AV	0-20.00 in w.c.				
475-2-FM-AV	0-40.00 in w.c.				

MODEL CHART - 475-XXT-FM-AV

MODEL CHART - 477AV-XXXT-AV

Range

0-1.000 in w.c.

0-4.000 in w.c.

0-10.00 in w.c.

0-20.00 in w.c.

475-00T-FM-AV 0-4.000 in w.c.

Range

0-10.00 in w.c.

0-20.00 in w.c.

Model

Model

477-000T-AV

477-00T-AV

477-0T-AV

477-1T-AV

475-0T-FM-AV

475-1T-FM-AV

THE SERIES 475-XX-FM-AV KIT INCLUDES: · Series 475 digital manometer

- (±0.5% FS accuracy and minor divisions to 0.01, large 1/2" LCD readout is easy to see in poorly lighted areas and has "low battery" warning)
- · Model 166-6-CF, 6" SS pitot tube with integral compression fitting to hold it securely
- when taking readings
- Two no. A-303 static pressure tips with magnetic mounting
 Two 9' lengths 3/16" ID rubber tubing
- No. A-397 step drill for 3/16"-1/2" holes in 1/16" increments
- No. A-532 AV slide chart
- 9 V battery
- · Fitted polyethylene case

THE SERIES 475-XXT-FM-AV KIT INCLUDES:

- Series 475 digital manometer (±0.5% FS accuracy and minor divisions to 0.01, large 1/2" LCD readout is easy to see in poorly lighted areas and has "low battery" warning)
- Model 166T, 36" telescoping SS pitot tube, fully adjustable from 11.5" to 36" (29.2 to
- 91.4 cm)
- Two no. A-303 static pressure tips with magnetic mounting
- Two 4-1/2' L 3/16" ID rubber tubing
- No. A-397 step drill for 3/16"-1/2" holes in 1/16" increments
- No. A-532 AV slide chart
- · 9 V alkaline battery
- · Fitted polyethylene case

THE SERIES 477-XXXT-AV KIT INCLUDES:

- Series 477AV digital manometer
- (±0.5% FS accuracy, calculates air velocity or volumetric air flow, stores up to 40 readings in memory, instantly selecting up to nine English/Metric pressure units,
- large, backlit 0.4" LCD readout, both audible and visual overpressure alarms and a "low battery" warning are standard features)
- Model 166T, 36" telescoping SS pitot tube, fully adjustable from 11.5" to 36" (29.2 to 91.4 cm)
- Two no. A-303 static pressure tips with magnetic mounting
- Two 4-1/2' L 3/16" ID rubber tubing
- No. A-397 step drill for 3/16"-1/2" holes in 1/16" increments
- No. A-532 AV slide chart
- 9 V alkaline battery
- · Fitted polyethylene case