
Description

The AV-MP**ABS range of Air Velocity Pitot Tubes can be used with our ranges of Air Differential Pressure Sensors to calculate airflow in larger ducts or in areas of turbulent airflow. The units come in pairs suitable for duct sizes up to 2 Metres.



Features

- Gaskets included for duct sealing
- Push on connectors for 5mm ID PVC tubing
- Use with DF, PTH or PA-LP range of Air DP sensors

Technical Specification

Probe:	25mm diameter ABS
Nipples:	Brass to suit 5mm ID PVC tubing
Flange:	52mm diameter Chromed Steel
Lengths:	See order codes

Order Codes

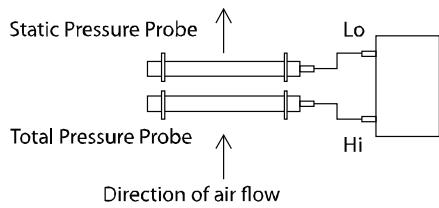
AV-MP600-ABS	Multi-point Velocity Probe - 600mm
AV-MP700-ABS	Multi-point Velocity Probe - 700mm
AV-MP800-ABS	Multi-point Velocity Probe - 800mm
AV-MP1000-ABS	Multi-point Velocity Probe - 1000mm
AV-MP1250-ABS	Multi-point Velocity Probe - 1250mm
AV-MP1500-ABS	Multi-point Velocity Probe - 1500mm
AV-MP1750-ABS	Multi-point Velocity Probe - 1750mm
AV-MP2000-ABS	Multi-point Velocity Probe - 2000mm

Installation

For round ducts, install probes side-by-side approx. 100mm apart. If they are to be mounted near a bend in the duct then mount them above each other approx. 100mm apart. Mark and drill the duct work using the mounting flange provided as a template.

1. The total pressure probe should be turned so that the holes face directly into the airflow and locked into position using the screws on the flange.
2. Adjust the static pressure probe so that the holes face the direction when the differential pressure measured corresponds to the measurement of air velocity using a vane anemometer.

Connection to DP Sensor



Calculation

$$\text{Air Velocity} = \sqrt{\frac{2 \times \text{Velocity Pressure}}{1.2}}$$

The measurement of a suitably connected Air Differential Pressure sensor can be used to calculate the Air Velocity and is represented by the equation above.

Multi-Point Air Velocity Pitot Tubes AV-MPABS**

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Air Differential to Pressure

MSEC	0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	MSEC	0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0	0.00	0.01	0.02	0.05	0.10	0.15	0.22	0.29	0.38	0.49	20	240.00	242.41	244.82	247.25	249.70	252.15	254.62	257.09	259.58	262.09
1	0.60	0.73	0.86	1.01	1.18	1.35	1.54	1.73	1.94	2.17	21	264.60	267.13	269.66	272.21	274.78	277.35	279.94	282.53	285.14	287.77
2	2.40	2.65	2.90	3.17	3.46	3.75	4.06	4.37	4.70	5.05	22	290.40	293.05	295.70	298.37	301.06	303.75	306.46	309.17	311.90	314.65
3	5.40	5.77	6.14	6.53	6.94	7.35	7.78	8.21	8.66	9.13	23	317.40	320.17	322.94	325.73	328.54	331.35	334.18	337.01	339.86	342.73
4	9.60	10.09	10.58	11.09	11.62	12.15	12.70	13.25	13.82	14.41	24	345.60	348.49	351.38	354.29	357.22	360.15	363.10	366.05	369.02	372.01
5	15.00	15.61	16.22	16.85	17.50	18.16	18.82	19.49	20.18	20.89	25	375.00	378.01	381.02	384.05	387.10	390.15	393.22	396.29	399.38	402.49
6	21.60	22.33	23.06	23.81	24.58	25.35	26.14	26.93	27.74	28.57	26	405.60	408.73	411.86	415.01	418.18	421.35	424.54	427.73	430.94	434.17
7	28.40	30.25	31.10	31.97	32.86	33.75	35.66	35.57	36.50	37.45	27	437.40	440.65	433.90	447.17	450.46	453.75	457.06	460.37	463.70	467.05
8	38.40	39.37	40.34	41.33	42.34	43.35	44.38	45.41	46.46	47.53	28	470.40	473.77	477.14	480.53	483.94	487.35	490.76	494.21	497.66	501.13
9	48.60	49.69	50.78	51.89	53.01	54.15	55.30	56.45	57.62	58.81	29	504.60	508.09	511.58	515.09	518.62	522.15	525.70	529.25	532.82	536.41
10	60.00	61.21	62.42	63.65	64.90	66.15	67.42	68.69	69.98	71.29	30	540.00	543.61	547.22	550.35	554.50	558.15	561.82	565.49	569.18	572.99
11	72.60	73.93	75.26	76.61	77.98	79.35	80.74	82.13	83.54	84.97	31	576.60	580.33	584.06	587.81	591.58	595.35	599.14	602.93	606.74	610.57
12	86.40	87.85	89.30	90.77	92.26	93.75	95.28	96.77	98.30	99.85	32	614.40	618.25	622.10	625.97	629.86	633.75	637.66	641.57	645.50	649.45
13	101.40	102.97	104.54	106.13	107.74	109.35	110.98	112.61	114.26	115.93	33	653.40	657.37	661.34	665.33	669.34	673.35	677.38	681.41	685.46	689.53
14	117.60	119.29	120.98	122.69	124.42	126.15	127.90	129.65	131.42	133.21	34	693.60	697.59	701.78	705.89	710.02	714.15	718.30	722.45	726.62	730.81
15	135.00	136.81	138.62	140.45	142.30	144.15	146.02	147.89	149.78	151.69	35	735.00	739.21	743.42	747.65	751.90	756.15	760.42	764.69	768.98	773.29
16	153.60	155.53	157.46	159.41	161.38	163.34	165.34	167.33	169.34	171.39	36	777.60	781.93	786.26	790.61	794.98	799.35	803.74	808.13	812.54	816.97
17	173.40	175.45	177.50	179.57	181.66	183.75	185.86	187.97	190.10	192.25	37	821.40	825.85	830.30	834.77	839.26	843.75	848.26	852.77	857.30	861.85
18	194.40	196.57	198.74	200.93	203.14	205.35	207.58	209.81	212.06	214.33	38	866.40	870.97	875.54	880.13	884.74	889.35	893.98	898.61	903.26	907.93
19	216.60	218.89	221.18	223.49	225.82	228.15	230.50	232.85	235.22	237.61	39	912.60	917.29	921.98	926.69	931.42	936.15	940.90	945.65	950.42	955.21