



MULTI-POINT AIR VELOCITY PITOT TUBES MP Series

The MP series of Air Velocity Pitot Tubes can be used with air differential pressure transmitters to calculate airflow in larger ducts or in areas of turbulent airflow. The units come in pairs suitable for duct sizes up to 2 m (6.56').

To size the proper MP length, add 150 mm to the duct width to calculate for MP length required. Example: if the duct width is 500 mm wide: 500 mm + 150 mm = 650 mm. A MP length of 700 mm is required.

The standard MP Series is constructed of durable ABS and are also available in optional 316 Stainless Steel.

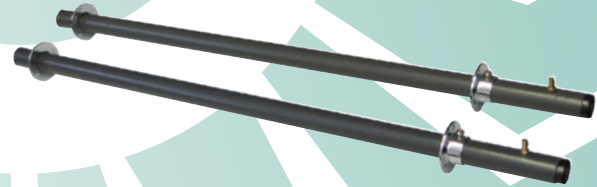
SPECIFICATION:

Material:.....Light gray ABS/polycarbonate (UL94-5V)
 Mounting:.....Adjustable flange with gasket on each end
 Connection:.....6.35 mm (0.25") nipple for 9.5 mm (3/8") OD polyethylene tubing
 Sizing:.....Duct Width + 150 mm
 Lengths:.....See Ordering Chart

TYPICAL INSTALLATION:

For round ducts, install probes side-by-side approximately 100 mm (4") apart. If they are to be mounted near a bend in the duct then mount them above each other approximately 100 mm (4") 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.



PART NUMBER SELECTED

PRODUCT SELECTION INFORMATION:

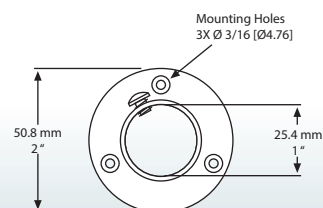
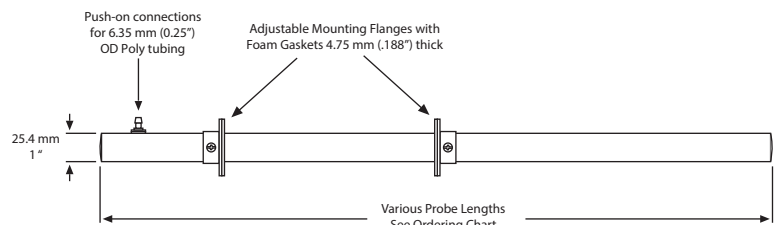
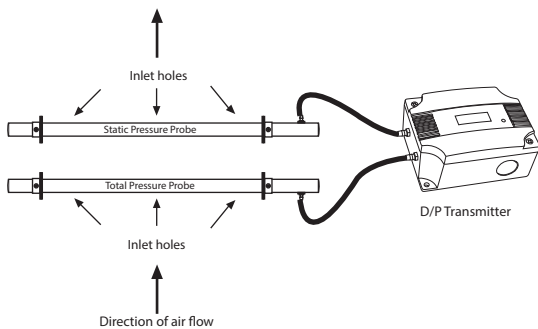
MODEL	Product Description
MP	Multi-Point Air Velocity Pitot Tubes

CODE	Probe Length (Add 150 mm to Duct Width)
600	600 mm (23.62")
700	700 mm (27.56")
800	800 mm (31.50")
1000	1000 mm (39.37")
1250	1250 mm (49.21")
1500	1500 mm (59.06")
1750	1750 mm (68.90")
2000	2000 mm (78.74")
**	Custom lengths available - Contact Greystone

CODE	Probe Material
ABS	ABS
SS	316 Stainless Steel

Greystone Energy Systems, Inc. reserves the right to make design modifications without prior notice.

DIMENSIONS:



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.

Velocity to Pressure (Pascals)

M/sec	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
1	0.60	0.73	0.86	1.01	1.18	1.35	1.54	1.73	1.94	2.17
2	2.40	2.65	2.90	3.17	3.46	3.75	4.06	4.37	4.70	5.05
3	5.40	5.77	6.14	6.53	6.94	7.35	7.78	8.21	8.66	9.13
4	9.60	10.09	10.58	11.09	11.62	12.15	12.70	13.25	13.82	14.41
5	15.00	15.61	16.22	16.85	17.50	18.16	18.82	19.49	20.18	20.89
6	21.60	22.33	23.06	23.81	24.58	25.35	26.14	26.93	27.74	28.57
7	29.40	30.25	31.10	31.97	32.86	33.75	35.66	35.57	36.50	37.45
8	38.40	39.37	40.34	41.33	42.34	43.35	44.38	45.41	46.46	47.53
9	48.60	49.69	50.78	51.89	53.01	54.15	55.30	56.45	57.62	58.81
10	60.00	61.21	62.42	63.65	64.90	66.15	67.42	68.69	69.98	71.29
11	72.60	73.93	75.26	76.61	77.98	79.35	80.74	82.13	83.54	84.97
12	86.40	87.85	89.30	90.77	92.26	93.75	95.26	96.77	98.30	99.85
13	101.40	102.97	104.54	106.13	107.74	109.35	110.98	112.61	114.26	115.93
14	117.60	119.29	120.98	122.69	124.42	126.15	127.90	129.65	131.42	133.21
15	135.00	136.81	138.62	140.45	142.30	144.15	146.02	147.89	149.78	151.69
16	153.60	155.53	157.46	159.41	161.38	163.34	165.34	167.33	169.34	171.39
17	173.40	175.45	177.50	179.57	181.66	183.75	185.86	187.97	191.10	192.25
18	194.40	196.57	198.74	200.93	203.14	205.35	207.58	209.81	212.06	214.33
19	216.60	218.89	221.18	223.49	225.82	228.15	230.50	232.85	235.22	237.61

M/sec	0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
20	240.00	242.41	244.82	247.25	249.70	252.15	254.62	257.09	259.58	262.09
21	264.60	267.13	269.66	272.21	274.78	277.35	279.94	282.53	285.14	287.77
22	290.40	293.05	295.70	298.37	301.06	303.75	306.46	309.17	311.90	314.65
23	317.40	320.17	322.94	325.73	328.54	331.35	334.18	337.01	339.86	342.73
24	345.60	348.49	351.38	354.29	357.22	360.15	363.10	366.05	369.02	372.01
25	375.00	378.01	381.02	384.05	387.10	390.15	393.22	396.29	399.38	402.49
26	405.60	408.73	411.86	415.01	418.18	421.35	424.54	427.73	430.94	434.17
27	437.40	440.65	433.90	447.17	450.46	453.75	457.06	460.37	463.70	467.05
28	470.40	473.77	477.14	480.53	483.94	487.35	490.78	494.21	497.66	501.13
29	504.60	508.09	511.58	515.09	518.62	522.15	525.70	529.25	532.82	536.41
30	540.00	543.61	547.22	550.85	554.50	558.15	561.82	585.49	569.18	572.89
31	576.60	580.33	584.06	587.81	591.58	595.35	599.14	602.93	606.74	610.57
32	614.40	618.25	622.10	625.97	629.86	633.75	637.66	641.57	645.50	649.45
33	653.40	657.37	661.34	665.33	669.34	673.35	677.38	681.41	685.46	689.53
34	693.60	697.69	701.78	705.89	710.02	714.15	718.30	722.45	726.62	730.81
35	735.00	739.21	743.42	747.65	751.90	756.15	760.42	764.69	768.98	773.29
36	777.60	781.93	786.26	790.61	794.98	799.35	803.74	808.13	812.54	816.97
37	821.40	825.85	830.30	834.77	839.26	843.75	848.26	852.77	857.30	861.85
38	866.40	870.97	875.54	880.13	884.74	889.74	893.98	898.61	903.26	907.93
39	912.60	917.20	921.98	926.69	931.42	936.15	940.90	945.65	950.42	955.21



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Greystone Energy Systems Inc. is one of North America's largest ISO registered manufacturers of HVAC sensors and transmitters for Building Automation Management Systems.

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