

Multi-Point Air Velocity Pitot Tubes AV-MP

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Description

The AV-MP 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 (larger upon request).

Features

- 316 stainless steel construction
- · Gaskets included for duct sealing
- Push on connectors for 5mm ID PVC tubing
- Use with DF or PA-LP range of Air DP sensors



Technical Specification

Probe: 26mm diameter 316 stainless steel

Nipples: Brass to suit 6mm ID PVC tubing

Flange: 52mm diameter Chromed steel

Lengths: See order codes

Installation

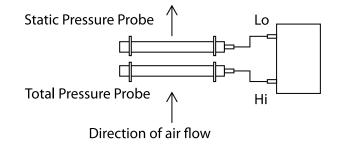
For round ducts, install probes side-by-side approx. 100mm apart. If they are to be mounted near a bend in the duct then mount them above each other approx. 100mm apart. Mark and drill the duct work using the mounting flange provided as a template.

- 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.
- 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.

Order Codes

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

Connection to DP Sensor



Calculation

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

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.

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Air Velocity to Differential Pressure Chart

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	190.10	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	8.0	0.9
20	0 240.00	0.1 242.41	0.2 244.82	0.3 247.25	0.4 249.70	0.5 252.15	0.6 254.62	0.7 257.09	0.8 259.58	0.9 262.09
20 21										
20 21 22	240.00	242.41	244.82	247.25	249.70	252.15	254.62	257.09	259.58	262.09 287.77 314.65
20 21 22 23	240.00 264.60	242.41 267.13 293.05 320.17	244.82 269.66	247.25 272.21	249.70 274.78	252.15 277.35	254.62 279.94	257.09 282.53	259.58 285.14	262.09 287.77 314.65 342.73
20 21 22 23 24	240.00 264.60 290.40	242.41 267.13 293.05 320.17 348.49	244.82 269.66 295.70 322.94 351.38	247.25 272.21 298.37 325.73 354.29	249.70 274.78 301.06 328.54 357.22	252.15 277.35 303.75 331.35 360.15	254.62 279.94 306.46 334.18 363.10	257.09 282.53 309.17 337.01 366.05	259.58 285.14 311.90 339.86 369.02	262.09 287.77 314.65 342.73 372.01
20 21 22 23 24 25	240.00 264.60 290.40 317.40 345.60 375.00	242.41 267.13 293.05 320.17 348.49 378.01	244.82 269.66 295.70 322.94 351.38 381.02	247.25 272.21 298.37 325.73 354.29 384.05	249.70 274.78 301.06 328.54 357.22 387.10	252.15 277.35 303.75 331.35 360.15 390.15	254.62 279.94 306.46 334.18 363.10 393.22	257.09 282.53 309.17 337.01 366.05 396.29	259.58 285.14 311.90 339.86 369.02 399.38	262.09 287.77 314.65 342.73 372.01 402.49
20 21 22 23 24 25 26	240.00 264.60 290.40 317.40 345.60 375.00 405.60	242.41 267.13 293.05 320.17 348.49 378.01 408.73	244.82 269.66 295.70 322.94 351.38 381.02 411.86	247.25 272.21 298.37 325.73 354.29 384.05 415.01	249.70 274.78 301.06 328.54 357.22 387.10 418.18	252.15 277.35 303.75 331.35 360.15 390.15 421.35	254.62 279.94 306.46 334.18 363.10 393.22 424.54	257.09 282.53 309.17 337.01 366.05 396.29 427.73	259.58 285.14 311.90 339.86 369.02 399.38 430.94	262.09 287.77 314.65 342.73 372.01 402.49 434.17
20 21 22 23 24 25 26 27	240.00 264.60 290.40 317.40 345.60 375.00 405.60 437.40	242.41 267.13 293.05 320.17 348.49 378.01 408.73 440.65	244.82 269.66 295.70 322.94 351.38 381.02 411.86 433.90	247.25 272.21 298.37 325.73 354.29 384.05 415.01 447.17	249.70 274.78 301.06 328.54 357.22 387.10 418.18 450.46	252.15 277.35 303.75 331.35 360.15 390.15 421.35 453.75	254.62 279.94 306.46 334.18 363.10 393.22 424.54 457.06	257.09 282.53 309.17 337.01 366.05 396.29 427.73 460.37	259.58 285.14 311.90 339.86 369.02 399.38 430.94 463.70	262.09 287.77 314.65 342.73 372.01 402.49 434.17 467.05
20 21 22 23 24 25 26 27 28	240.00 264.60 290.40 317.40 345.60 375.00 405.60 437.40 470.40	242.41 267.13 293.05 320.17 348.49 378.01 408.73 440.65 473.77	244.82 269.66 295.70 322.94 351.38 381.02 411.86 433.90 477.14	247.25 272.21 298.37 325.73 354.29 384.05 415.01 447.17 480.53	249.70 274.78 301.06 328.54 357.22 387.10 418.18 450.46 483.94	252.15 277.35 303.75 331.35 360.15 390.15 421.35 453.75 487.35	254.62 279.94 306.46 334.18 363.10 393.22 424.54 457.06 490.78	257.09 282.53 309.17 337.01 366.05 396.29 427.73 460.37 494.21	259.58 285.14 311.90 339.86 369.02 399.38 430.94 463.70 497.66	262.09 287.77 314.65 342.73 372.01 402.49 434.17 467.05 501.13
20 21 22 23 24 25 26 27 28 29	240.00 264.60 290.40 317.40 345.60 375.00 405.60 437.40 470.40 504.60	242.41 267.13 293.05 320.17 348.49 378.01 408.73 440.65 473.77 508.09	244.82 269.66 295.70 322.94 351.38 381.02 411.86 433.90 477.14 511.58	247.25 272.21 298.37 325.73 354.29 384.05 415.01 447.17 480.53 515.09	249.70 274.78 301.06 328.54 357.22 387.10 418.18 450.46 483.94 518.62	252.15 277.35 303.75 331.35 360.15 390.15 421.35 453.75 487.35 522.15	254.62 279.94 306.46 334.18 363.10 393.22 424.54 457.06 490.78 525.70	257.09 282.53 309.17 337.01 366.05 396.29 427.73 460.37 494.21 529.25	259.58 285.14 311.90 339.86 369.02 399.38 430.94 463.70 497.66 532.82	262.09 287.77 314.65 342.73 372.01 402.49 434.17 467.05 501.13 536.41
20 21 22 23 24 25 26 27 28 29 30	240.00 264.60 290.40 317.40 345.60 375.00 405.60 437.40 470.40 504.60 540.00	242.41 267.13 293.05 320.17 348.49 378.01 408.73 440.65 473.77 508.09 543.61	244.82 269.66 295.70 322.94 351.38 381.02 411.86 433.90 477.14 511.58 547.22	247.25 272.21 298.37 325.73 354.29 384.05 415.01 447.17 480.53 515.09 550.85	249.70 274.78 301.06 328.54 357.22 387.10 418.18 450.46 483.94 518.62 554.50	252.15 277.35 303.75 331.35 360.15 390.15 421.35 453.75 487.35 522.15 558.15	254.62 279.94 306.46 334.18 363.10 393.22 424.54 457.06 490.78 525.70 561.82	257.09 282.53 309.17 337.01 366.05 396.29 427.73 460.37 494.21 529.25 585.49	259.58 285.14 311.90 339.86 369.02 399.38 430.94 463.70 497.66 532.82 569.18	262.09 287.77 314.65 342.73 372.01 402.49 434.17 467.05 501.13 536.41 572.89
20 21 22 23 24 25 26 27 28 29 30 31	240.00 264.60 290.40 317.40 345.60 375.00 405.60 437.40 470.40 504.60 540.00 576.60	242.41 267.13 293.05 320.17 348.49 378.01 408.73 440.65 473.77 508.09 543.61 580.33	244.82 269.66 295.70 322.94 351.38 381.02 411.86 433.90 477.14 511.58 547.22 584.06	247.25 272.21 298.37 325.73 354.29 384.05 415.01 447.17 480.53 515.09 550.85 587.81	249.70 274.78 301.06 328.54 357.22 387.10 418.18 450.46 483.94 518.62 554.50 591.58	252.15 277.35 303.75 331.35 360.15 390.15 421.35 453.75 487.35 522.15 558.15 595.35	254.62 279.94 306.46 334.18 363.10 393.22 424.54 457.06 490.78 525.70 561.82 599.14	257.09 282.53 309.17 337.01 366.05 396.29 427.73 460.37 494.21 529.25 585.49 602.93	259.58 285.14 311.90 339.86 369.02 399.38 430.94 463.70 497.66 532.82 569.18 606.74	262.09 287.77 314.65 342.73 372.01 402.49 434.17 467.05 501.13 536.41 572.89 610.57
20 21 22 23 24 25 26 27 28 29 30 31 32	240.00 264.60 290.40 317.40 345.60 375.00 405.60 437.40 470.40 504.60 540.00 576.60 614.40	242.41 267.13 293.05 320.17 348.49 378.01 408.73 440.65 473.77 508.09 543.61 580.33 618.25	244.82 269.66 295.70 322.94 351.38 381.02 411.86 433.90 477.14 511.58 547.22 584.06 622.10	247.25 272.21 298.37 325.73 354.29 384.05 415.01 447.17 480.53 515.09 550.85 587.81 625.97	249.70 274.78 301.06 328.54 357.22 387.10 418.18 450.46 483.94 518.62 554.50 591.58 629.86	252.15 277.35 303.75 331.35 360.15 390.15 421.35 453.75 487.35 522.15 558.15 595.35 633.75	254.62 279.94 306.46 334.18 363.10 393.22 424.54 457.06 490.78 525.70 561.82 599.14 637.66	257.09 282.53 309.17 337.01 366.05 396.29 427.73 460.37 494.21 529.25 585.49 602.93 641.57	259.58 285.14 311.90 339.86 369.02 399.38 430.94 463.70 497.66 532.82 569.18 606.74 645.50	262.09 287.77 314.65 342.73 372.01 402.49 434.17 467.05 501.13 536.41 572.89 610.57 649.45
20 21 22 23 24 25 26 27 28 29 30 31 32 33	240.00 264.60 290.40 317.40 345.60 375.00 405.60 437.40 470.40 504.60 540.00 576.60 614.40 653.40	242.41 267.13 293.05 320.17 348.49 378.01 408.73 440.65 473.77 508.09 543.61 580.33 618.25 657.37	244.82 269.66 295.70 322.94 351.38 381.02 411.86 433.90 477.14 511.58 547.22 584.06 622.10 661.34	247.25 272.21 298.37 325.73 354.29 384.05 415.01 447.17 480.53 515.09 550.85 587.81 625.97 665.33	249.70 274.78 301.06 328.54 357.22 387.10 418.18 450.46 483.94 518.62 554.50 591.58 629.86 669.34	252.15 277.35 303.75 331.35 360.15 390.15 421.35 453.75 487.35 522.15 558.15 595.35 633.75 673.35	254.62 279.94 306.46 334.18 363.10 393.22 424.54 457.06 490.78 525.70 561.82 599.14 637.66 677.38	257.09 282.53 309.17 337.01 366.05 396.29 427.73 460.37 494.21 529.25 585.49 602.93 641.57 681.41	259.58 285.14 311.90 339.86 369.02 399.38 430.94 463.70 497.66 532.82 569.18 606.74 645.50 685.46	262.09 287.77 314.65 342.73 372.01 402.49 434.17 467.05 501.13 536.41 572.89 610.57 649.45 689.53
20 21 22 23 24 25 26 27 28 29 30 31 32 33 34	240.00 264.60 290.40 317.40 345.60 375.00 405.60 437.40 470.40 504.60 540.00 576.60 614.40 653.40 693.60	242.41 267.13 293.05 320.17 348.49 378.01 408.73 440.65 473.77 508.09 543.61 580.33 618.25 657.37 697.69	244.82 269.66 295.70 322.94 351.38 381.02 411.86 433.90 477.14 511.58 547.22 584.06 622.10 661.34 701.78	247.25 272.21 298.37 325.73 354.29 384.05 415.01 447.17 480.53 515.09 550.85 587.81 625.97 665.33 705.89	249.70 274.78 301.06 328.54 357.22 387.10 418.18 450.46 483.94 518.62 554.50 591.58 629.86 669.34 710.02	252.15 277.35 303.75 331.35 360.15 390.15 421.35 453.75 487.35 522.15 558.15 595.35 633.75 673.35 714.15	254.62 279.94 306.46 334.18 363.10 393.22 424.54 457.06 490.78 525.70 561.82 599.14 637.66 677.38 718.30	257.09 282.53 309.17 337.01 366.05 396.29 427.73 460.37 494.21 529.25 585.49 602.93 641.57 681.41 722.45	259.58 285.14 311.90 339.86 369.02 399.38 430.94 463.70 497.66 532.82 569.18 606.74 645.50 685.46 726.62	262.09 287.77 314.65 342.73 372.01 402.49 434.17 467.05 501.13 536.41 572.89 610.57 649.45 689.53 730.81
20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35	240.00 264.60 290.40 317.40 345.60 375.00 405.60 437.40 470.40 504.60 540.00 576.60 614.40 653.40 693.60 735.00	242.41 267.13 293.05 320.17 348.49 378.01 408.73 440.65 473.77 508.09 543.61 580.33 618.25 657.37 697.69 739.21	244.82 269.66 295.70 322.94 351.38 381.02 411.86 433.90 477.14 511.58 547.22 584.06 622.10 661.34 701.78 743.42	247.25 272.21 298.37 325.73 354.29 384.05 415.01 447.17 480.53 515.09 550.85 587.81 625.97 665.33 705.89 747.65	249.70 274.78 301.06 328.54 357.22 387.10 418.18 450.46 483.94 518.62 554.50 591.58 629.86 669.34 710.02 751.90	252.15 277.35 303.75 331.35 360.15 390.15 421.35 453.75 487.35 522.15 558.15 595.35 633.75 673.35 714.15 756.15	254.62 279.94 306.46 334.18 363.10 393.22 424.54 457.06 490.78 525.70 561.82 599.14 637.66 677.38 718.30 760.42	257.09 282.53 309.17 337.01 366.05 396.29 427.73 460.37 494.21 529.25 585.49 602.93 641.57 681.41 722.45 764.69	259.58 285.14 311.90 339.86 369.02 399.38 430.94 463.70 497.66 532.82 569.18 606.74 645.50 685.46 726.62 768.98	262.09 287.77 314.65 342.73 372.01 402.49 434.17 467.05 501.13 536.41 572.89 610.57 649.45 689.53 730.81 773.29
20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36	240.00 264.60 290.40 317.40 345.60 375.00 405.60 437.40 470.40 504.60 540.00 576.60 614.40 653.40 693.60 735.00 777.60	242.41 267.13 293.05 320.17 348.49 378.01 408.73 440.65 473.77 508.09 543.61 580.33 618.25 657.37 697.69 739.21 781.93	244.82 269.66 295.70 322.94 351.38 381.02 411.86 433.90 477.14 511.58 547.22 584.06 622.10 661.34 701.78 743.42 786.26	247.25 272.21 298.37 325.73 354.29 384.05 415.01 447.17 480.53 515.09 550.85 587.81 625.97 665.33 705.89 747.65 790.61	249.70 274.78 301.06 328.54 357.22 387.10 418.18 450.46 483.94 518.62 554.50 591.58 629.86 669.34 710.02 751.90 794.98	252.15 277.35 303.75 331.35 360.15 390.15 421.35 453.75 487.35 522.15 558.15 595.35 633.75 673.35 714.15 756.15 799.35	254.62 279.94 306.46 334.18 363.10 393.22 424.54 457.06 490.78 525.70 561.82 599.14 637.66 677.38 718.30 760.42 803.74	257.09 282.53 309.17 337.01 366.05 396.29 427.73 460.37 494.21 529.25 585.49 602.93 641.57 681.41 722.45 764.69 808.13	259.58 285.14 311.90 339.86 369.02 399.38 430.94 463.70 497.66 532.82 569.18 606.74 645.50 685.46 726.62 768.98 812.54	262.09 287.77 314.65 342.73 372.01 402.49 434.17 467.05 501.13 536.41 572.89 610.57 649.45 689.53 730.81 773.29 816.97
20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37	240.00 264.60 290.40 317.40 345.60 375.00 405.60 437.40 470.40 504.60 540.00 576.60 614.40 653.40 693.60 735.00 777.60 821.40	242.41 267.13 293.05 320.17 348.49 378.01 408.73 440.65 473.77 508.09 543.61 580.33 618.25 657.37 697.69 739.21 781.93 825.85	244.82 269.66 295.70 322.94 351.38 381.02 411.86 433.90 477.14 511.58 547.22 584.06 622.10 661.34 701.78 743.42 786.26 830.30	247.25 272.21 298.37 325.73 354.29 384.05 415.01 447.17 480.53 515.09 550.85 587.81 625.97 665.33 705.89 747.65 790.61 834.77	249.70 274.78 301.06 328.54 357.22 387.10 418.18 450.46 483.94 518.62 554.50 591.58 629.86 669.34 710.02 751.90 794.98 839.26	252.15 277.35 303.75 331.35 360.15 390.15 421.35 453.75 487.35 522.15 558.15 595.35 633.75 673.35 714.15 756.15 799.35 843.75	254.62 279.94 306.46 334.18 363.10 393.22 424.54 457.06 490.78 525.70 561.82 599.14 637.66 677.38 718.30 760.42 803.74 848.26	257.09 282.53 309.17 337.01 366.05 396.29 427.73 460.37 494.21 529.25 585.49 602.93 641.57 681.41 722.45 764.69 808.13 852.77	259.58 285.14 311.90 339.86 369.02 399.38 430.94 463.70 497.66 532.82 569.18 606.74 645.50 685.46 726.62 768.98 812.54 857.30	262.09 287.77 314.65 342.73 372.01 402.49 434.17 467.05 501.13 536.41 572.89 610.57 649.45 689.53 730.81 773.29 816.97 861.85
20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36	240.00 264.60 290.40 317.40 345.60 375.00 405.60 437.40 470.40 504.60 540.00 576.60 614.40 653.40 693.60 735.00 777.60	242.41 267.13 293.05 320.17 348.49 378.01 408.73 440.65 473.77 508.09 543.61 580.33 618.25 657.37 697.69 739.21 781.93	244.82 269.66 295.70 322.94 351.38 381.02 411.86 433.90 477.14 511.58 547.22 584.06 622.10 661.34 701.78 743.42 786.26	247.25 272.21 298.37 325.73 354.29 384.05 415.01 447.17 480.53 515.09 550.85 587.81 625.97 665.33 705.89 747.65 790.61	249.70 274.78 301.06 328.54 357.22 387.10 418.18 450.46 483.94 518.62 554.50 591.58 629.86 669.34 710.02 751.90 794.98	252.15 277.35 303.75 331.35 360.15 390.15 421.35 453.75 487.35 522.15 558.15 595.35 633.75 673.35 714.15 756.15 799.35	254.62 279.94 306.46 334.18 363.10 393.22 424.54 457.06 490.78 525.70 561.82 599.14 637.66 677.38 718.30 760.42 803.74	257.09 282.53 309.17 337.01 366.05 396.29 427.73 460.37 494.21 529.25 585.49 602.93 641.57 681.41 722.45 764.69 808.13	259.58 285.14 311.90 339.86 369.02 399.38 430.94 463.70 497.66 532.82 569.18 606.74 645.50 685.46 726.62 768.98 812.54	262.09 287.77 314.65 342.73 372.01 402.49 434.17 467.05 501.13 536.41 572.89 610.57 649.45 689.53 730.81 773.29 816.97