

Perivascular Flowprobe Specifications

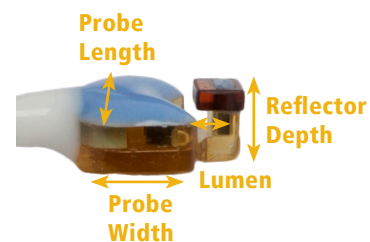
PS-Series, V-Series, PR-Series, PAU-Series & PMP-Series

PROBE SIZE & SERIES	VESSEL OD		BIDIRECTIONAL FLOW OUTPUTS				ACCURACY SPECIFICATIONS ⁵			ULTRASOUND FREQUENCY
	MA-ACUTE APPLICATION	MC-CHRONIC APPLICATION	RESOLUTION ¹	LOW FLOW (¼ SCALE) ²	STANDARD SCALE ²	MAX FLOW ³ (STD SCALE)	ZERO OFFSET ⁴	ABSOLUTE ACCURACY	RELATIVE ACCURACY	
	mm	mm	ml/min	1V output in ml/min	1V output in ml/min	5V output in ml/min	ml/min	% of reading	%	MHz
0.5PS	0.3 - 0.5	0.3 - 0.48	0.03	1.5	6	30	± 0.12	± 15	± 2	14.4
0.7PS	0.5 - 0.7	0.4 - 0.7	0.05	2.5	10	50	± 0.2	± 15	± 2	9.6
1.5PS	1.2 - 1.5	1.2 - 1.5	0.075	10	40	200	± 0.8	± 15	± 2	4.8
0.5V	0.25 - 0.5	N/A	0.05	2.5	10	50	± 0.25	± 15	± 3	7.2
0.7V	0.35 - 0.7	N/A	0.075	5.0	20	100	± 0.5	± 15	± 3	4.8
1PR	0.7 - 1.2	0.7 - 1.0	0.05	5	20	100	± 0.2	± 10	± 2	7.2
1.5PR	1.2 - 1.8	1.0 - 1.5	0.075	10	40	200	± 0.4	± 10	± 2	4.8
2PS	1.5 - 2.0	1.3 - 1.8	0.1	25	100	500	± 1	± 10	± 2	3.6
2.5PS	1.8 - 2.5	1.5 - 2.4	0.1	25	100	500	± 1	± 10	± 2	3.6
3PS	2.5 - 3.7	2.4 - 3.4	0.4	50	200	1 L	± 2	± 10	± 2	3.6
4PS	3.3 - 4.4	3.0 - 4.0	0.8	100	400	2 L	± 4	± 10	± 2	2.4
6PS	4.4 - 6.6	4.0 - 6.0	2.0	250	1 L	5 L	± 10	± 10	± 2	1.8
8PS	6.6 - 8.8	5.8 - 8.0	4.0	500	2 L	10 L	± 20	± 10	± 2	1.2
10PS	8.3 - 11.0	7.3 - 10.0	4.0	500	2 L	10 L	± 20	± 10	± 2	1.2
12PS	9.8 - 13.0	8.6 - 12.0	8.0	1 L	4 L	20 L	± 40	± 10	± 2	0.9
14PS	11.3 - 15.0	10 - 14	8.0	1 L	4 L	20 L	± 40	± 10	± 2	0.9
16PS	13.3 - 17.7	12 - 16	20.0	2.5 L	10 L	50 L	± 100	± 10	± 2	0.6
20PS	16.0 - 21.0	14 - 19	40.0	2.5 L	10 L	50 L	± 100	± 10	± 2	0.6
8PAU	6 - 8	6 - 7	4	500	2 L	10 L	± 20	± 10	± 2	3.6
10PAU	8 - 10	8 - 9	4	500	2 L	10 L	± 20	± 10	± 2	3.6
12PAU	9 - 12	9 - 11	8	1 L	4 L	20 L	± 40	± 10	± 2	2.4
14PAU	11 - 14	11 - 13	8	1 L	4 L	20 L	± 40	± 10	± 2	2.4
16PAU	12 - 16	12 - 15	20	2.5 L	10 L	50 L	± 100	± 10	± 2	1.8
20PAU	16 - 20	16 - 19	20	2.5 L	10 L	50 L	± 100	± 10	± 2	1.8
24PAU	19 - 24	19 - 23	40	5 L	20 L	100 L	± 200	± 10	± 2	1.2
28PAU	22 - 28	22 - 27	40	5 L	20 L	100 L	± 200	± 10	± 2	1.2
32PAU	25 - 32	25 - 31 ⁶	80	10 L	40 L	200 L	± 400	± 10	± 2	0.9
36PAU	28 - 36	28 - 35 ⁶	80	10 L	40 L	200 L	± 400	± 10	± 2	0.9
2PMP	1.5 - 2.5	N/A	0.1	25	100	500	± 1	± 15	± 2	3.6
3PMP	2.5 - 3.7	N/A	0.4	50	200	1 L	± 2	± 15	± 2	3.6
4PMP	3.3 - 4.4	N/A	0.8	100	400	2 L	± 4	± 15	± 2	2.4
6PMP	4.4 - 6.6	N/A	2.0	250	1 L	5 L	± 10	± 15	± 2	1.8
8PMP	6.6 - 8.8	N/A	4.0	500	2 L	10 L	± 20	± 15	± 2	1.2
10PMP	8.3 - 11.0	N/A	4.0	500	2 L	10 L	± 20	± 15	± 2	1.2
12PMP	9.8 - 13.0	N/A	8.0	1 L	4 L	20 L	± 40	± 15	± 2	0.9
14PMP	11.3 - 15.0	N/A	8.0	1 L	4 L	20 L	± 40	± 15	± 2	0.9

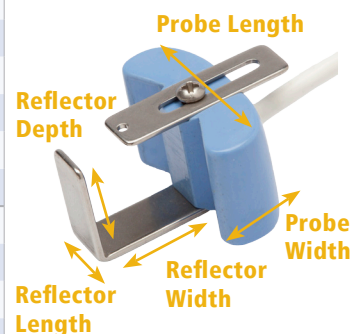
- Resolution: represents the smallest detectable change in flow, a factor in accuracy.
- Probes operate in either low flow or normal flow scales, determined by the flow range under study. Probes measure bidirectional flow up to 5 times the selected scale setting. The scale settings calibrates the 1 volt reference signal for data collection; the linear range of the Flowmeter is equal to ± 5V. By using the low flow button, measurement sensitivity is increased four fold. This linear overrange is important for the proper recording of highly pulsatile peak flows.
- Maximum Range for each Probe reflects the highest flow rate that can be processed and displayed via the analog connector.
- Zero offset on individual Probes is often lower than this value.
- The Absolute Accuracy percentage can be raised to relative accuracy levels by in situ calibration.
- 32-36PAU Probes are only supplied with acute liners & may require modification for chronic use.

Physical Specifications

PROBE SIZE & SERIES	PROBE BODY			REFLECTOR			HANDLE	CABLE	
	WEIGHT grams	LENGTH mm	WIDTH mm	LENGTH mm	WIDTH mm	DEPTH mm	LENGTH cm	LENGTH m	DIAMETER mm
0.5PS	0.09	3.2	2.3	lumen = 0.47 ¹		1.0 ²	5 ³	60 cm	1.0
0.7PS	0.12	3.2	2.7	lumen = 0.70 ¹		1.2 ²	5 ³	60 cm	1.0
1.5PS	0.23	4.25	3.75	lumen = 1.65 ¹		2.0 ²	N/A	60 cm	1.25
0.5V	0.2	6.5	4.0	2.0	1.5	1.1	5 ³	60 cm	1.5
0.7V	0.25	7.6	3.5	2.5	1.7	1.8	5 ³	60 cm	1.5
1PR	0.2	6.5	4.0	2.0	1.5	1.1	N/A	60 cm	1.5
1.5PR	0.25	7.6	3.5	2.5	1.7	1.8	N/A	60 cm	1.5
2PS	0.3	8.7	3.3	3.3	2.0	2.5	N/A	1.0	1.5
2.5PS	0.3	8.7	3.3	3.3	3.2	2.5	N/A	1.0	1.5
3PS	1.2	9.0	5.0	3.5	4.0	3.7	N/A	1.0	2.0
4PS	1.5	13.3	6.0	3.8	5.5	4.4	N/A	1.0	2.0
6PS	2.7	13.5	6.7	4.0	7.8	6.6	N/A	1.0	2.5
8PS	5.0	18.8	7.5	6.0	8.2	8.8	N/A	1.0	2.5
10PS	5.3	18.8	8.5	6.0	10.0	11.0	N/A	1.0	2.5
12PS	9.3	22.5	8.5	6.2	12.0	13.0	N/A	1.0	3.0
14PS	11.6	26.2	8.5	7.5	14.5	15.0	N/A	1.0	3.0
3.16PS	16.6	36.0	10.0	9.0	17.0	17.7	N/A	1.0	3.0
20PS	20.2	31.0	9.0	9.0	21.0	21.0	N/A	1.0	3.0
2PMP	14	7	5.5	3.0	3.0	2.7	17.5	2.0	2.2
3PMP	17	9	7.4	4.0	4.0	3.5	17.5	2.0	2.2
4PMP	17	10	6.8	3.4	5.0	4.6	17.5	2.0	2.2
6PMP	17	12.7	7.7	4.1	7.8	6.6	17.5	2.0	2.2
8PMP	21	15.2	8.5	4.6	9.0	8.6	17.5	2.0	2.2
10PMP	21	16.5	9.4	5.2	11.0	10.8	17.5	2.0	2.2
12PMP	21	19.5	10	5.8	13.0	12.8	17.5	2.0	2.2
14PMP	26	25	11	7.6	14.5	17.5	17.5	2.0	2.2



1. Lumen is the ultrasonic window within the reflector. Dimensions are approximately equal.
2. Reflector depth is the external dimension for Nanoprobes.
3. Handle comes standard with indicated MA- acute Probes. MC- chronic or custom orders are available without a handle.



PROBE SIZE & SERIES	PROBE	PROBE LINER		PROBE SHELL		CABLE	
	WEIGHT grams	ID mm	DEPTH W/ FLANGE mm	DEPTH mm	LENGTH mm	LENGTH m	DIAMETER mm
8PAU	2.0	8	7	8	16	2.0	2.7
10PAU	2.5	10	7	8	19	2.0	2.7
12PAU	4.0	12	10	10	21	2.0	2.7
14PAU	5.5	14	12	12	24	2.0	2.7
16PAU	9.0	16	13	14	26	2.0	2.7
20PAU	14.0	18 or 20	14	15	31	2.0	2.7
24PAU	22.5	22 or 24	18	18	36	2.0	2.7
28PAU	30.3	26 or 28	19	20	41	2.0	2.7
32PAU	45	30 or 32	22	22	46	2.0	2.7
36PAU	59	34 or 36	23	23	51	2.0	2.7

