

Transonic® Sterile Tubing Flowsensors

Extracorporeal Applications — T110 Flowmeters

Specifications

Sensors are pre-calibrated for specific tubing type, fluid and temperature. Typical tubing brands are listed in the table below; flowsensors for tubing other than listed may be custom calibrated.

CAT #	TUBING			BIDIRECTIONAL FLOW		ACCURACY ¹			ULTRA-
	ID inches	Wall thickness inches	OD inches	Resolution 2 ml/min	Maximum Range L/min	Zero Stability ml/min	Sensitivity %	Δ ml/min	SOUND Frequency MHz
2X	For these sensors the ratio of tubing wall thickness to OD must not exceed 1:5 for PVC tubes or 1:3 for silicone tubes		1/8-3/16	0.5	1	1.5	±5	1.5	3.6
3X			3/16-1/4	1.0	2	3	±5	3	3.6
4X			1/4-5/16	1.0	2	3	±5	3	3.6
5X			5/16	1.0	2	3	±5	3	3.6
6XL	1/4	1/16	3/8	2.5	5	7.5	±5	7.5	2.4
7XL	1/4	3/32	7/16	5	10	12	±5	15	1.8
8XL	3/8	1/16	1/2	5	10	12	±5	15	1.8
9XL	3/8	3/32	9/16	5	10	12	±5	15	1.8
10XL	1/2	1/16	5/8	10	20	20	±5	30	1.2
11XL	1/2	3/32	11/16	10	20	20	±5	30	1.2
12XL	1/2	1/8	3/4	10	20	20	±5	30	1.2
14XL	5/8	1/8	7/8	25	20	50	±5	75	0.9
16XL	3/4	1/8	1	25	50	50	±5	75	0.9
20XL	1	1/8	1 1/4	50	50	100	±5	150	0.6

¹These values represent the maximum observed error. Total accuracy (error) will be the sum of the zero offset, sensitivity error (percentage of flow reading) and the number "Δ" which affects flows in the low flow region and is positive. Stability is defined as the maximum zero offset drift over an 8 hour period. Sensitivity error can be decreased to < 2% by calibrating sensor directly on the tubing and fluid prior to measurement. Zero offset can be eliminated by zeroing sensor prior to measurement.

²Resolution indicated is at .1Hz filter (average flow output).