



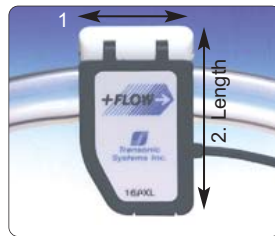
Precision *Clamp-On* Flowsensors ME-PXL-Series for TS410 Modules

Reliable Performance for Repeated, Carefree Use in Defined Tubing Applications

- ✓ Artificial Heart & VAD Performance
- ✓ Medical Device & Pump Engineering
- ✓ Manufacturing & Compliance Flow Testing

Transonic Precision PXL-Clamp-on Tubing Flowsensors clip on the outside of flexible laboratory. No physical contact is made with the fluid media. ME-PXL-Series flowsensors can be calibrated and programmed for up to 4 different fluid, temperature, tubing, flow rate combinations. Sensor size is determined by outside diameter of the tubing.

Standard MEPXL sensors are sized in 1/16" increments. (Custom sizes are available for metric tubing).



PHYSICAL SPECIFICATIONS*

SENSOR SIZE	1. DIMENSION ALONG TUBE		2. HEIGHT		3. LENGTH	
	inch	mm	inch	mm	inch	mm
Catalog #						
2PXL, 3PXL	0.82	20.8	0.67	17.0	1.25	31.6
4PXL, 5PXL	0.89	22.7	0.80	20.3	1.39	35.2
6PXL	0.96	24.3	0.88	22.3	1.54	39.1
7PXL	1.01	25.6	0.97	24.5	1.66	42.1
8PXL	1.09	27.7	0.95	24.0	1.74	41.3
9PXL	1.30	32.6	0.97	24.6	1.83	46.5
10PXL	1.24	31.6	1.06	26.9	1.99	50.5
11PXL	1.37	34.8	1.11	28.3	2.19	55.8
12PXL	1.50	38.1	1.21	30.7	2.40	60.9
14PXL	1.63	41.2	1.40	35.5	2.59	65.8
16PXL	1.85	46.9	1.54	39.3	2.95	74.9
20PXL	2.29	58.2	1.79	45.6	3.67	93.4

* Subject to modification

3PXL
9PXL
11PXL
20PXL

TUBING SENSOR	TUBING SPECIFICATIONS					ACCURACY SPECIFICATIONS								
	TUBING ID		WALL THICKNESS		TUBING OD		BIDIRECTIONAL FLOW OUTPUTS				ACCURACY ¹			ULTRA-SOUND Frequency MHz
	inches	mm	inches	mm	inches	mm	Resolution ² ml/min	Low Flow (1/4 scale) 1 volt = ml/min	Standard Flow (Full Scale) 1 volt = ml/min	Max Flow in Standard Range 5 volt = L/min	Maximum Zero Offset ml/min	Absolute Accuracy %	Relative Accuracy %	
Catalog #														
ME 2PXL	In sizes 2PXL - 4PXL ratio of tubing wall thickness to OD must not exceed 1:5 for PVC; 1:3 for silicone				1/8 - 5/32	3.1 - 4.0	0.5	50	200	1	± 4.0	± 10	± 4	3.6
3PXL					3/16 - 7/32	4.7 - 5.5	1	100	400	2	± 8.0	± 10	± 4	3.6
4PXL					1/4 - 9/32	6.3 - 7.7	1	100	400	2	± 8.0	± 10	± 4	2.4 - 3.6
5PXL	3/16	4.7	1/16	1.6	5/16 - 11/32	7.8 - 8.7	1	100	400	2	± 8.0	± 10	± 4	2.4
6PXL	1/4	6.4	1/16	1.6	3/8	9.5	2.5	250	1 L	5	± 15	± 10	± 4	2.4
7PXL	1/4	6.4	3/32	2.4	7/16	11.1	5	500	2 L	10	± 30	± 10	± 4	1.8
8PXL	3/8	9.5	1/16	1.6	1/2	12.7	5	500	2 L	10	± 30	± 10	± 4	1.8
9PXL	3/8	9.5	3/32	2.4	9/16	14.3	5	500	2 L	10	± 30	± 10	± 4	1.8
10PXL	1/2	12.7	1/16	1.6	5/8	15.9	10	1 L	4 L	20	± 60	± 10	± 4	1.2
11PXL	1/2	12.7	3/32	2.4	11/16	17.5	10	1 L	4 L	20	± 60	± 10	± 4	1.2
12PXL	1/2	12.7	1/8	3.2	3/4	19.0	10	1 L	4 L	20	± 60	± 10	± 4	1.2
14PXL	5/8	15.9	1/8	3.2	7/8	22.2	25	2.5 L	10 L	50	± 150	± 10	± 4	1.2
16PXL	3/4	19.0	1/8	3.2	1	25.4	25	2.5 L	10 L	50	± 150	± 10	± 4	1.2
20PXL	1	25.4	1/8	3.2	1 1/4	31.8	50	5 L	20 L	100	± 300	± 10	± 4	0.9

Calibration is dependent on tubing material, wall thickness, ultrasound velocity of liquid flowing through the tube, and temperature.

1a Absolute Accuracy is composed of zero stability, sensitivity and linearity errors. Stated values apply when flow rate is greater than 5% of maximum range and zero offset is nulled.

1b If the sensor is calibrated on-site for the tubing and liquid in use, absolute accuracy is further improved to the value listed as "Relative Accuracy."

1c On-site calibration is recommended if the sensor is routinely used to measure flows less than 5% of the maximum range to account for non-linearities associated with flow profile.

2 Resolution represents the smallest detectable flow change at 0.1Hz filter (average flow output).

