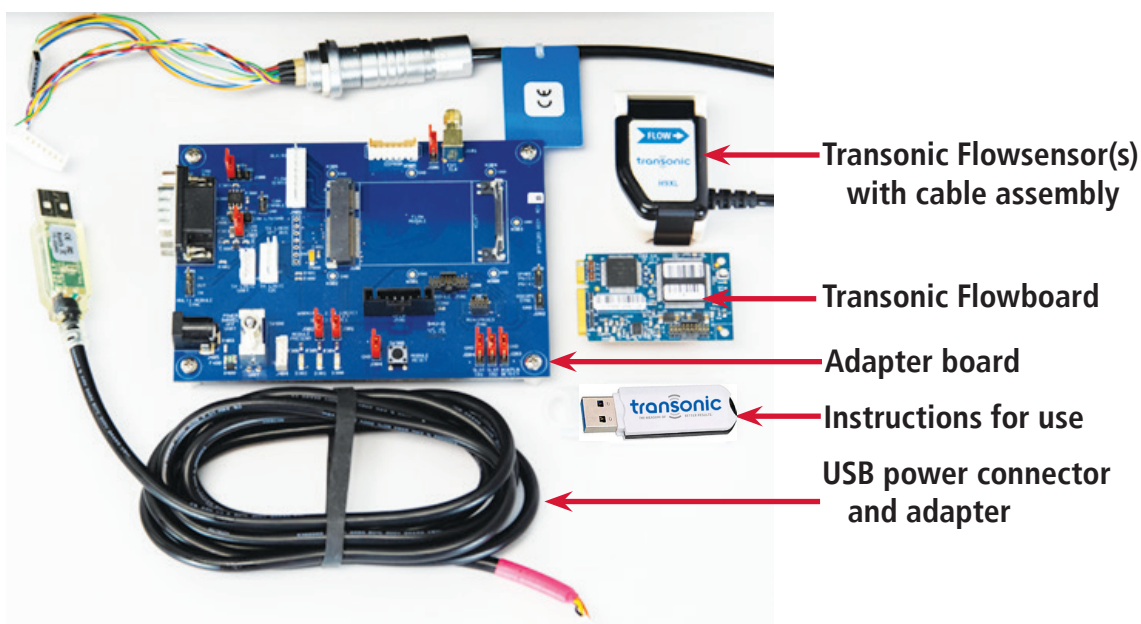


Complete Solution for OEM Application Testing

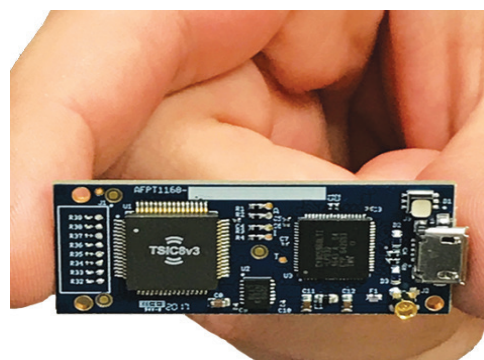
The *Transonic-Inside™* OEM Development Kit gives you the ability to test the capabilities and performance of the Flowboard and Flowsensor combination that best fits your specific biomedical device/ application. The kit comes complete with the components shown below.



Customizing Your Kit

1. Choose your Transonic Flowboard

Transonic Flowboard		AFPT1168	AFPT1199
Dimensions	cm	4.45 x 1.78 x <.064	4.90 x 3.00 x 0.51
	inches	1.75 x 0.70 x <0.25	1.93 x 1.18 x 0.20
Power Requirements		5.0 VDC at 0.25 Watt	5.0 VDC +/- 0.25 at 0.5 Watt
UART Output Interface		UART (SCI)	UART (SCI), CANopen



AFPT1168 Flowboard

Transonic-Inside™ OEM Development Kit cont.

Customizing Your Kit cont.

2. Choose your Transonic Flowsensor Size(s)

You can use the chart below to select the appropriate sensor size based on your tubing size.



Tubing Sensor



Open Tubing Sensor

SENSOR SIZE	TUBING ID (INNER DIAMETER)		TUBING WALL THICKNESS		FLOW RATE SUPPORTED*	
					LOW FLOW (¼ SCALE)	STANDARD FLOW SCALE
	mm	inches	mm	inches	L/min	L/min
2	2.38	3/32	0.79	1/32	0.05 - 0.25	0.1 - 1
3	3.18	1/8	0.79	1/32	0.1 - 0.5	0.2 - 2
4	3.18	1/8	1.59	1/16	0.1 - 0.5	0.2 - 2
5	4.76	3/16	1.59	1/16	0.1 - 0.5	0.2 - 2
6	6.35	1/4	1.59	1/16	0.25 - 1.25	0.5 - 5
7	6.35	1/4	2.38	3/32	0.5 - 2.5	1 - 10
8	9.53	3/8	1.59	1/16	0.5 - 2.5	1 - 10
	7.94	5/16	2.38	3/32		
9	9.53	3/8	2.38	1/16	0.5 - 2.5	1 - 10
10	12.70	1/2	1.59	1/16	1 - 5	2 - 20
11	12.70	1/2	2.38	3/32	1 - 5	2 - 20
12	12.70	1/2	3.18	1/8	1 - 5	2 - 20
14	15.88	5/8	3.18	1/8	2.5 - 12.5	5 - 50
	17.46	11/16	2.38	3/32		
16	19.05	3/4	3.18	1/8	2.5 - 12.5	5 - 50
20	25.40	1	3.18	1/8	5 - 25	10 - 100

* Range includes zero. Any flow peak exceeding the Max Flow Value (-5 volt to +5 volt range) will be clipped. Measurements below lower linear limit may deviate from the stated accuracy specifications. Flow sensors can measure bi-directional flow.

3. Determine Your Calibration Specifications

- Liquid type (e.g., blood, water/saline, Glycerine solution)
- Operational fluid temperature
- Expected flow rate/ range (the chart above includes low flow and standard flow scales).

Since fluid density and temperature alter the transit time of the ultrasound signal and affect the acoustic properties of the tubing, we calibrate sensors specifically for these parameters. Operational fluid temperature should be within $\pm 2^{\circ}\text{C}$ of the specified calibration temperature. Specify up to four combinations of tubing, fluid, temperature, and flow rate for calibration. Fluid samples and MSDS information may be required for *custom calibration requests*.

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