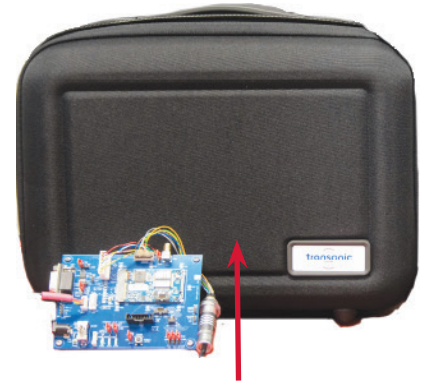
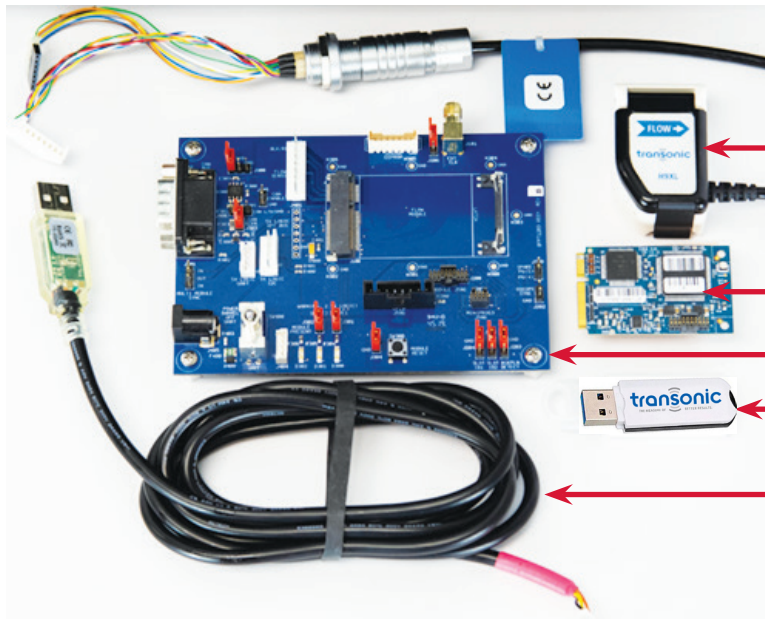


Complete Solution for OEM Application Testing

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.



Protective case



Transonic Flowsensor(s) with cable assembly

Transonic Flowboard

Adapter board

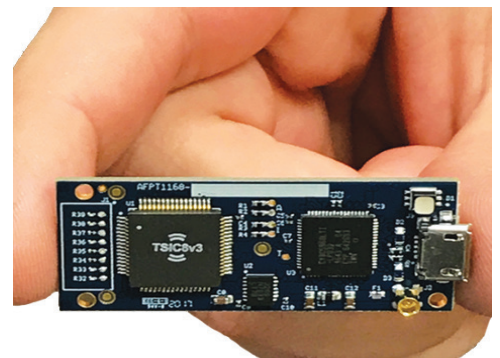
Instructions for use

USB power connector and adapter

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		5.0VDC at 0.25 Watt	5.0 VDC +/- 0.25 at 0.5 Watt
UART Output Interface		SPI, UART (SCI)	SPI, 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. Note that this chart is for clamp-on sensors, but Transonic also provides a full range of inline sensors.



Tubing Sensor



Open Tubing Sensor

Sensor Size	Tubing ID (Inner Diameter)		Tubing WT (Wall Thickness)		Flow Rate Supported* Liters/min.	
	<i>mm</i>	<i>inches</i>	<i>mm</i>	<i>inches</i>	<i>low flow (1/4 scale)</i>	<i>standard flow scale</i>
	2PXL	2.38	3/32	0.79	1/32	0.05 - 0.25
3PXL	3.18	1/8	0.79	1/32	0.1 - 0.5	0.2 - 2
4PXL	3.18	1/8	1.59	1/16	0.1 - 0.5	0.2 - 2
5PXL	4.76	3/16	1.59	1/16	0.1 - .0.5	0.2 - 2
6PXL	6.35	1/4	1.59	1/16	0.25 - 1.25	0.5 - 5
7PXL	6.35	1/4	2.38	3/32	0.5 - 2.5	1- 10
8PXL	9.53	3/8	1.59	1/16	0.5 - 2.5	1- 10
	7.94	5/16	2.38	3/32		
9PXL	9.53	3/8	2.38	3/32	0.5 - 2.5	1- 10
10PXL	12.7	1/2	1.59	1/16	1 - 5	2 - 20
11PXL	12.7	1/2	2.38	3/32	1 - 5	2 - 20
12PXL	12.7	1/2	3.18	1/8	1 - 5	2 - 20
14PXL	15.88	5/8	3.18	1/8	2.5 - 12.5	5 - 50
	17.46	11/16	2.38	3/32		
16PXL	19.05	3/4	3.18	1/8	2.5 - 12.5	5 - 50
20PXL	25.40	1	3.18	1/8	5 - 25	10 - 100

* Range includes zero. Any flow peaks 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 specification. Flow sensors can measure bi-directional flows.

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.

Mason Caplin

Transonic-Inside™ OEM

Applications Engineer

mason.caplin@transonic.com

John Haberstock

Transonic-Inside™ Market

Development Manager

john.haberstock@transonic.com

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