

The Flometrics Pressure Pulse Generator & Attenuation Testing Device (PPG-601A) is an all-in-one system for testing frequency response and attenuation of transducers, catheters and other pressure-sensing devices. The system was developed using Flometrics' extensive knowledge of fluid mechanics and years of experience in the engineering services field. This system is in use by several of the world's top medical device manufacturers.

Pressure and frequency capabilities can be custom-tailored for the required application. Typical specifications are listed below.



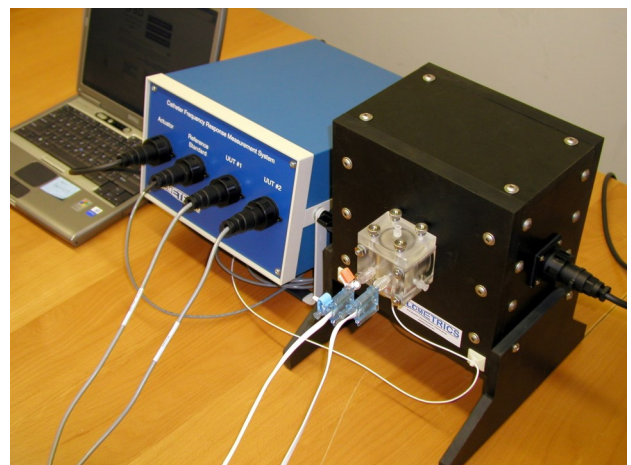
Flometrics PPG-601A Specifications

- Pressures from 0 to 200 torr
- Frequency up to 1kHz
- Waveforms: Sine, Square, Triangle, Custom

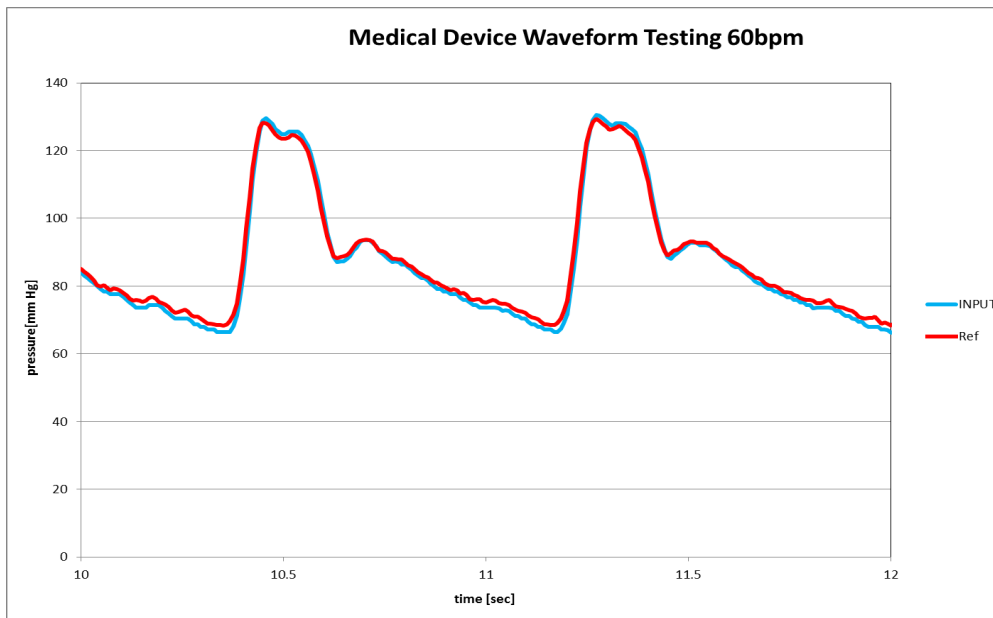
The PPG-601A can be used in a variety of system configurations. Such systems can be simple as using only a function generator to output a pressure signal or a customized software made pressure signal. The software package offers the ability run Sine, Square and Triangle waveforms, plot of attenuation vs. frequency for each sensor tested with automatic FFT analysis, and custom waveform such as mimicking the human heart. All data will be saved in both a detailed spread sheet and a summarized output via PDF. The pressure pulse generator unit is also available separately for customers who do not require automatic control and measurement. When used in this way, the device can be a substitute for the hard-to-find Biotek 601A.



Standard PPG-601A System



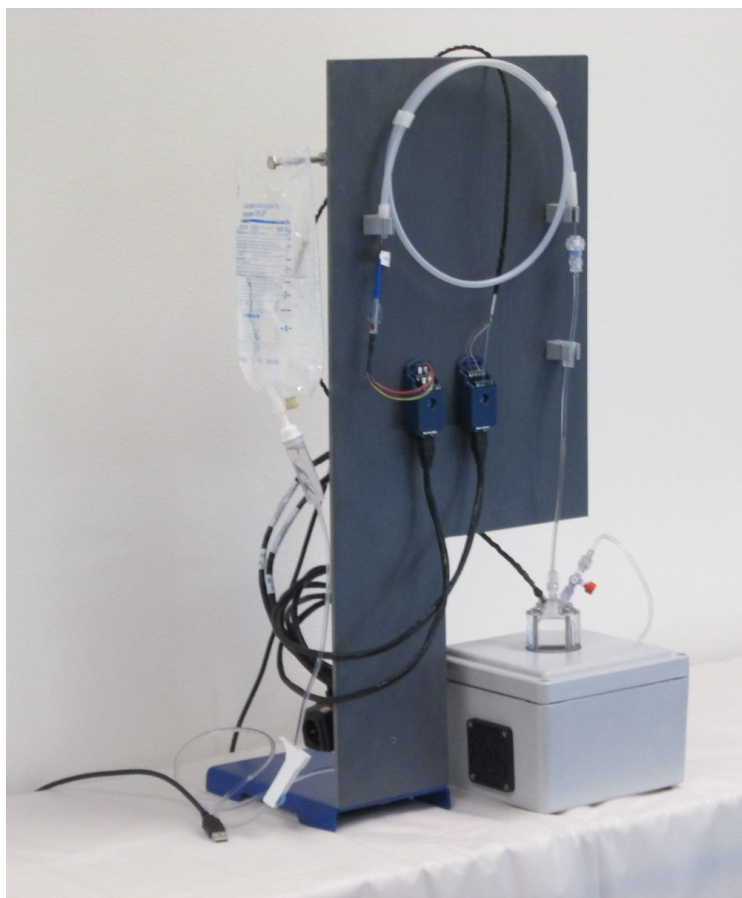
Custom PPG-601A System



Medical Device Testing Results using the PPG-601A to output pressure vs time data

If your application demands greater performance, contact us! We have created units capable of generating even higher frequencies and pressures of over 200 psi. The device follows the guidelines of AAMI TIR9:1992, "Evaluation of clinical systems for invasive blood pressure monitoring".

Test Catheter Setup



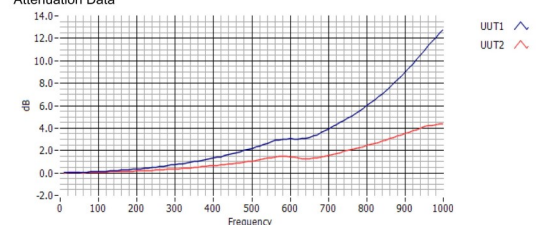
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Attenuation Testing Results

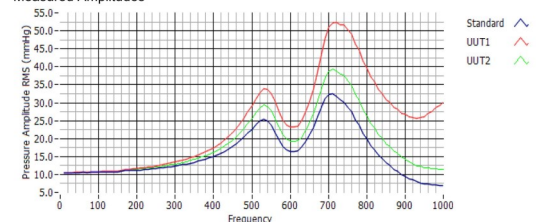
Calculated Attenuation Properties

	UUT #1	UUT #2
Natural Frequency (Hz)	1013.49	1108.81
Damping Coef.	0.114988	0.318444
1.15 dB Bandwidth cutoff Freq. (Hz)	380	520

Attenuation Data



Measured Amplitudes



Attenuation Testing Results

1 of 1

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