Pulsation Damping Kit for Liquid Flow Sensors

The pulsation damping kit at hand enables you to gather first experiences with the concept of flow damping in case of pulsatile flows.

A fluidic system is made of several components. They all influence the way a generated pulse is dampened while propagating through the system. The particular combination of resistance and capacity, i.e. the specific design of your fluidic system, defines the damping of such a pulse down- or upstream of the pump and therefore also the way the pulse arrives at and is measured by Sensirion's liquid flow sensor.



Quick Start Guide

To test the pulsation damping kit in combination with a Sensirion liquid flow sensor, proceed as follows:

- Connect the kidney tube (made from PU, 340 mm total length) between pump and liquid flow sensor.

 Optional: Use the provided union (made from POM, white) to connect the kidney tube to your existing fluidic system if needed.
- 1 Install the restrictor (made from POM, black) on the outlet (downstream) side of the liquid flow sensor.
- 3 Start testing with DI water. Ensure chemical compatibility of the wetted parts of the kit components as well as of the sensor before using other media for your measurement.
- 4 Check the resulting sensor performance with Sensirion's free Sensor Viewer Software. The sampling rate should be set to 2 ms when examining pulsatile flows.

Further details about the handling of pulsations can be found in Sensirion's Application Note "Pulsation Damping Kit" at www.sensirion.com/download-center

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