

Application Note Liquid Flow Sensors Sensor Selection Guide

This Application Note aims to help you in finding the right sensor for your application. This decision is

typically based on the flow rates, pressures and liquids used in your application.



Figure 1: Sensors and their performance characteristics.

1 Flow rates

Sensors with full scale flow rates between 8 μl/min and 120 ml/min are available as Flow Meter Kits. Please pick the sensor that best suits your desired flow ranges.

2 Pressures

Liquid Flow Meter Kits are available for sensors with maximum pressure ratings between 12 bar and 500 bar. Please make sure that the sensor capillary is never subjected to pressures beyond their maximum pressure rating.

3 Calibration

All our Flow Meter Kits are calibrated with water. Additionally, some (the SLF3x, SLI, and SLQ range) offer a second calibration. This calibration is for IPA and will yield more accurate results if the main liquid components of your application are hydrocarbons.

4 Chemical Compatibility

While the sensing element is never in direct contact with the measured liquid, some chemical restrictions may arise from the wetted materials (fittings, seals and capillaries). Please see the datasheet of the sensor you have chosen for a list of the wetted materials and ensure their compatibility with your application.

Headquarters and Subsidiaries

Sensirion AG

Laubisruetistr. 50
CH-8712 Staefa ZH
Switzerland

phone: +41 44 306 40 00
fax: +41 44 306 40 30
info@sensirion.com
www.sensirion.com

Sensirion Inc., USA

phone: +1 312 690 5858
info-us@sensirion.com
www.sensirion.com

Sensirion Japan Co. Ltd.
phone: +81 3 3444 4940
info-jp@sensirion.com
www.sensirion.co.jp

Sensirion Korea Co. Ltd.

phone: +82 31 337 7700~3
info-kr@sensirion.com
www.sensirion.co.kr

Sensirion China Co. Ltd.
phone: +86 755 8252 1501
info-cn@sensirion.com
www.sensirion.com.cn

Sensirion Taiwan Co. Ltd

phone: +886 3 5506701
info@sensirion.com
www.sensirion.com

To find your local representative, please visit www.sensirion.com/distributors