

## 1 Sensor Performance (preliminary data, subject to change without prior notice)

The following Table 1 lists preliminary specifications of the current prototypes. Please contact Sensirion if different specifications are required.

Parameter	SLF3S-1300F	Unit
H <sub>2</sub> O Full scale flow rate	40	ml/min
H <sub>2</sub> O Sensor output limit <sup>1</sup>	65	ml/min
Accuracy <sup>2</sup> (whichever error is larger)	5	% of measured value
	0.1	ml/min
Repeatability <sup>2</sup> (whichever error is larger)	0.5	% of measured value
	0.01	ml/min
Temperature coefficient <sup>3</sup> (additional error / °C; whichever is larger)	tbd	% measured value / °C
	tbd	% full scale / °C
Mounting orientation sensitivity <sup>4</sup>	tbd	% of full scale
Calibrated for	Water	-

**Table 1:** Preliminary specifications for liquid flow sensor SLF3S-1300F (all data for medium H<sub>2</sub>O, at 23°C, and for VDD 3.5V)

<sup>1</sup> Flow rate at which the sensor output saturates. See section 1.1 for performance between full scale and saturation point.

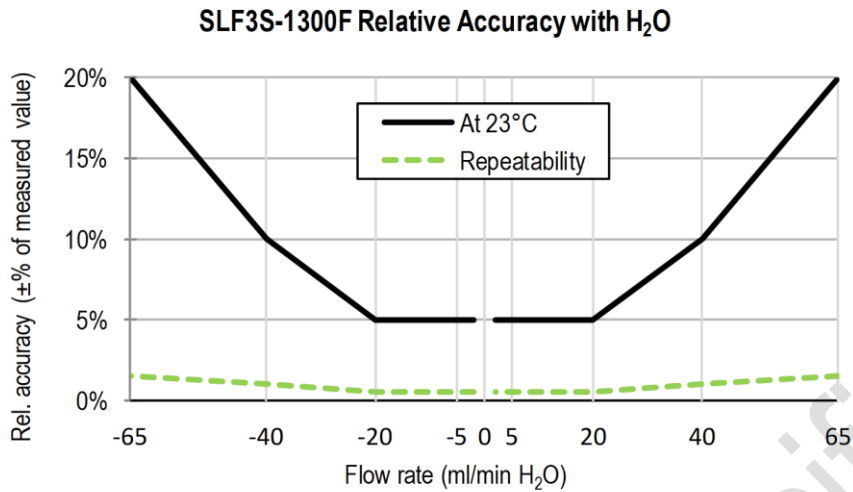
<sup>2</sup> Accuracy respectively repeatability specifications valid for flow rates below  $\pm 20$  ml/min. See the charts in section 2 for the accuracy and repeatability specifications, respectively, between  $\pm 20$  ml/min and full scale.

<sup>3</sup> Additional accuracy error in case liquid and ambient temperatures are similar but both deviating from 23 °C.

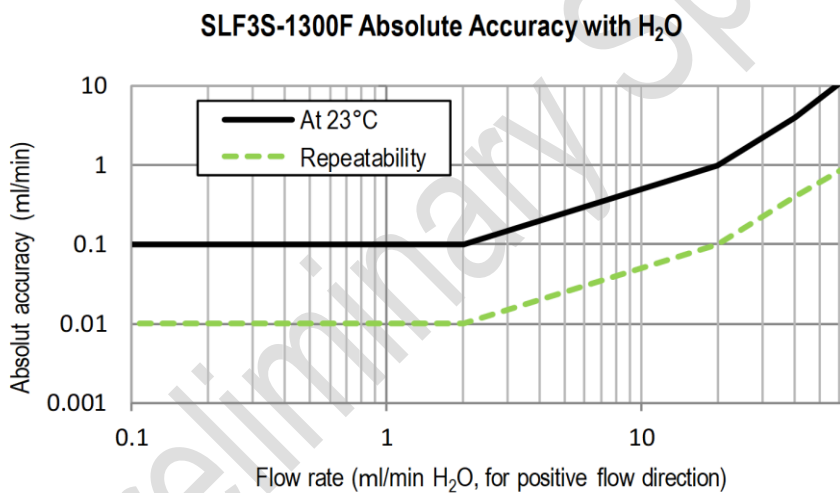
<sup>4</sup> Maximum additional offset when flow channel is vertical.

### 1.1 Specification Charts

The SLF3S-1300F liquid flow sensor shows bi-directional, linear transfer characteristics. The product comes fully calibrated for water.



**Figure 1:** Liquid flow sensor accuracy and repeatability across the flow range of the SLF3S-1300F. Relative error in ±% of measured value for H<sub>2</sub>O.



**Figure 2:** Liquid flow sensor accuracy and repeatability across the positive flow range of the SLF3S-1300F. Absolute error in ml/min for H<sub>2</sub>O.