

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

Table 1: Preliminary specifications for liquid flow sensor SLF3S-1300F (all data for medium H₂O, at 23°C, and for VDD 3.5V)

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

² Accuracy respectively repeatability specifications valid for flow rates below ± 20 ml/min. See the charts in section 2 for the accuracy and repeatability specifications, respectively, between ± 20 ml/min and full scale.

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

⁴ 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.

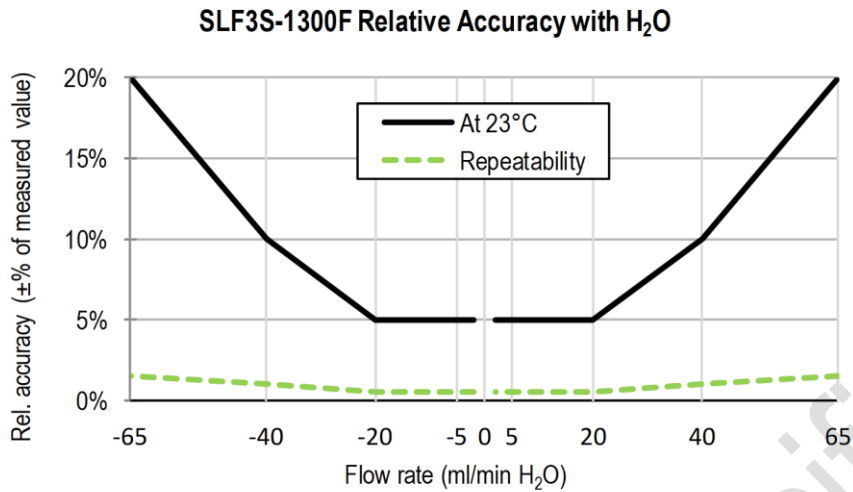


Figure 1: Liquid flow sensor accuracy and repeatability across the flow range of the SLF3S-1300F. Relative error in ±% of measured value for H₂O.

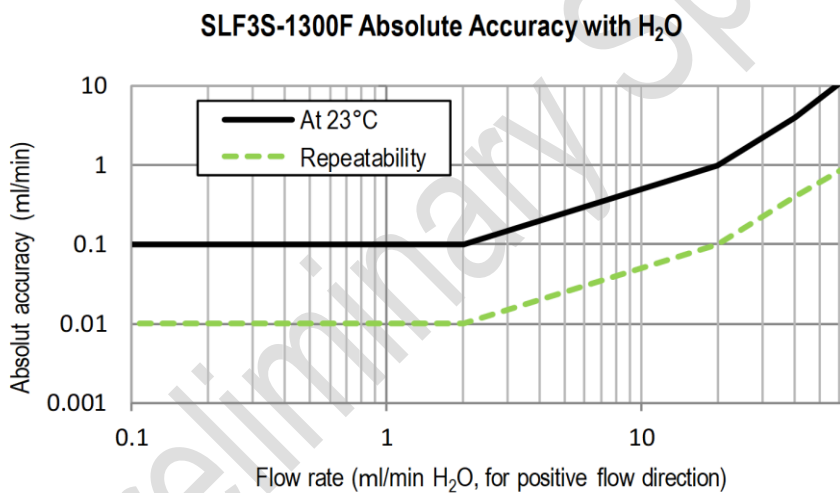


Figure 2: Liquid flow sensor accuracy and repeatability across the positive flow range of the SLF3S-1300F. Absolute error in ml/min for H₂O.