

PRODUCT INFORMATION

FLS112



The world's **smallest** flow sensor

The FLS112 is the world's smallest mass flow sensor. Allowing you to add accurate flow measurement features into any size of product: from smart medical devices to volume consumer goods. It offers complete configuration flexibility, balancing performance and cost for every application.

With bidirectional flow sensing capability, the FLS112 provides mass flow, volumetric flow, differential pressure, and temperature measurements. Easy to integrate and with in-system calibration via firmware, the FLS112 is part of a complete digital flow sensing solution for fast product development.

Key benefits

- Small footprint 3.5 mm x 3.5 mm
- Bidirectional thermal gas flow sensor
- Outstanding performance, robustness, reliability
- Ultra-low power
- Optimised for automated, high-speed product manufacturing processes

Applications



Hyperscale data centres



Home healthcare



Automotive



Consumer appliances

PRODUCT INFORMATION



Mechanical specifications

- 6-pin DFN package
- 3.5 mm x 3.5 mm footprint
- < 3 mm overall height

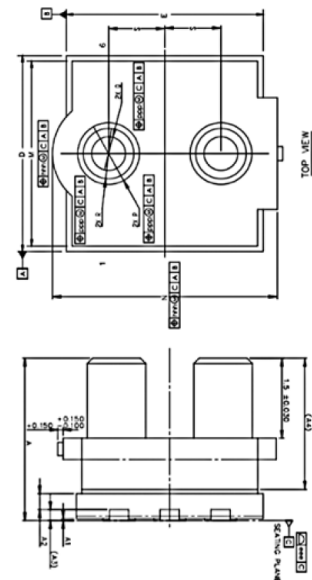
Features

- Thermal air flow or differential pressure sensor
- Integrated temperature sensor
- Fully temperature-compensated for reliable flow signal
- Easy integration into existing flow paths
- Supplied firmware provides digital flow and temperature readings

Flow sensor specifications

Parameter	Typical value	
Footprint	3.5 mm x 3.5 mm	
Measurement range	Differential Pressure	0.5 Pa full scale
	Mass Flow	Through flow mode: ± 200 sccm
		By-pass flow mode: Up to ± 500 slm or more
Temperature	-20 to +85 °C	
Max accuracy	Differential Pressure	0.5 Pa (equivalent to 0.1% of full scale)
	Mass Flow	Zero DP: 1 sccm / Span: $\pm 5\%$ of m.v.
		Temperature

*m.v. is measured value



Ordering guide

Type no	Packing type	Size	Quantity	Part no
FLS112	Tape & reel	7"	500 min	FLS112-TR07
FLS112	Waffle tray	10 cm x 10 cm	1 to 324	FLS112-WT324

For further application information or a copy of the full product datasheet please visit flussold.com

