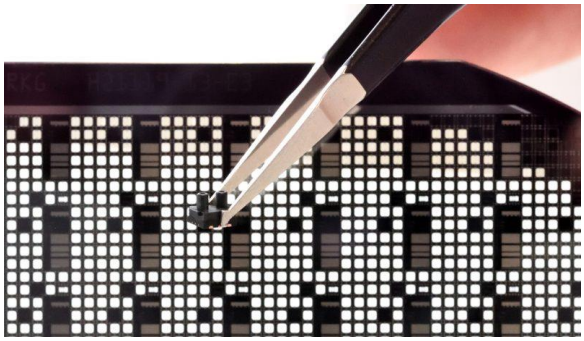
Application Note FL-001229-AN

Smart Healthcare: Application Note

Overview: Smart healthcare is experiencing huge growth as medical professionals around the world use miniature connected sensing devices to monitor health and wellbeing. This is leading to better health outcomes for patients, fewer visits to the doctor, and cost savings for health providers too.

But until now, it has always been difficult to integrate flow sensing into the smallest battery-powered smart health products.



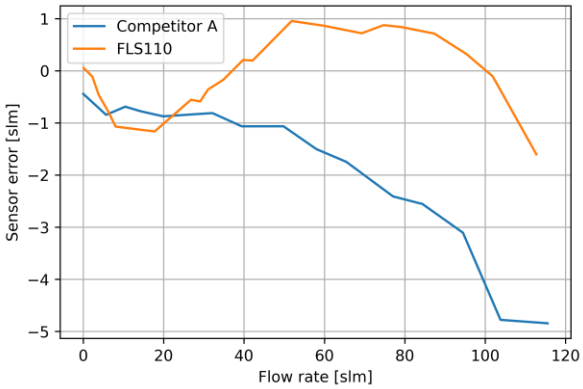
The FLS110 sensing component footprint is only 3.5 x 3.5 x 3 mm

Perfectly Portable: The FLS110 is small enough to fit inside any inhaler and integrates easily into its existing moulded flow path with minimal design changes. It's also ideal for battery-powered applications: the complete sensing solution consumes less than 5 mA when actively measuring and less than 1 µA at idle.

Subminiature flow sensing technology enables the next generation of smart inhalers

Class-leading system accuracy: The FLS110 supports in situ system calibration. This ensures that unit to unit variation of any part within your system does not affect the accuracy of the final measurement. Better than 5% accuracy is possible with multipoint calibration across the entire flow measurement range of interest.

The FLS110 significantly outperforms more expensive competitors' products in terms of in system accuracy.



The FLS110 shows better in system accuracy over a wider flow range compared to competitor products

Direct mass flow measurement:
The FLS110 directly measures mass flow rate and flow temperature, and provides a mass or volume flow reading that is accurate across changes in atmospheric pressure and temperature.

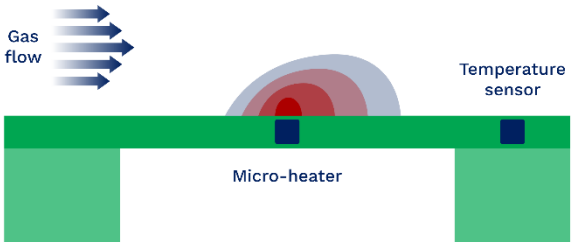
Ideal for applications where gases must be accurately dosed by mass or volume.

When actively measuring, the FLS110 samples at 250 Hz which is fast enough to resolve a single breath in intricate detail.

FLS110 evaluation kit: This kit contains everything you'll need. It's supplied with a fluidic fixture (to fit your flow range), push-fit connectors and a USB adapter to connect the FLS110 PCB directly to your PC.

And once you have everything connected together, you can easily recalibrate the sensor to take account of your complete system.

Using our FLS110 evaluation kit
you can be measuring flow within minutes.



The FLS110 thermal measurement principle directly measures mass flow rate with excellent accuracy.

Scan QR Code for more information or to order an FLS110 evaluation kit.

Flusso Ltd
Deanland House
160 Cowley Rd
Cambridge CB4 0DL
UK

Email
sales@flussoltd.com