

Digital output flow sensor

MMS501

Product image for illustration purposes only.



Outline

This product is a flow sensor using MEMS technology. The product mounts a $\Delta\Sigma$ AD converter with a resolution of 24 bits and outputs a high-accuracy flow rate value as a digital value. I2C is adopted for the interface and communication is performed with a microcomputer.

Applications

Medical application, combution application Devices using flow rate

Features

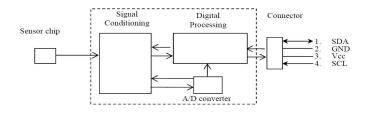
- 1 High-accuracy measurement
- ② Mass flow rate measurement with thermal flow MEMS Chip.
- ③ ΔΣ AD converter with a resolution of 24 bits and outputs a high-accuracy flow rate value as a digital value.

Specification (Draft)

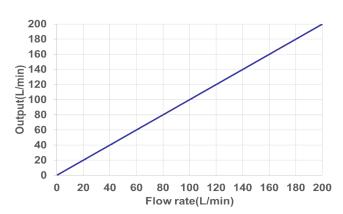
ITEM	SPECIFICATION
Calibrated for	Air,Natural gas
Measurement range(*)	-250L/min to 250L/min
Accuracy	±5%RD(10% to 25%FS)
	±3%RD(25% to 100%FS)
Supply Voltage	$2.7 extsf{V} \sim 3.6 extsf{V}$
Operating Temperature	-20℃ to 80℃
Resolution	24bit
Interface	I2C
Size (TBD)	73(W) ×24(D) ×38(H)mm

^{*}Measurement range can be customized

Block Diagram



Typical Performance Characteristics







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https://product.minebeamitsumi.com/en/product/category/sensor/ics/

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