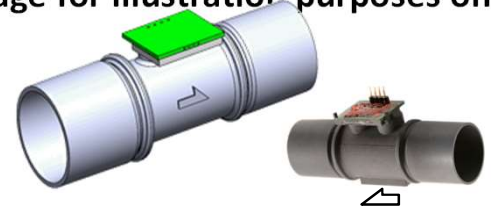


PRELIMINARY

Digital output flow sensor

Product image for illustration purposes only.

MMS501



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, combustion application
Devices using flow rate

Features

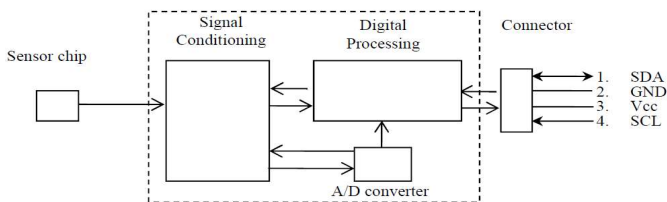
- ① High-accuracy measurement
- ② Mass flow rate measurement with thermal flow MEMS Chip.
- ③ $\Delta\Sigma$ AD converter with a resolution of 24 bits and outputs a high-accuracy flow rate value as a digital value.

Specification (Draft)

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

*Measurement range can be customized

Block Diagram



Typical Performance Characteristics

