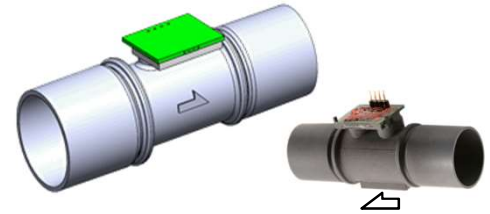


Digital output flow sensor

## 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, combustion application

Devices using flow rate

### Features

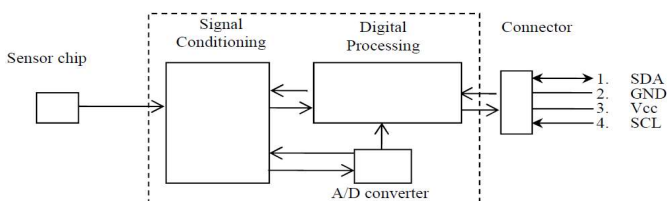
- ① High-accuracy measurement
- ② Mass flow rate measurement with thermal flow MEMS Chip.
- ③  $\Delta\Sigma$  AD converter with a resolution of 24 bits and outputs a high-accuracy flow rate value as a digital value.

### 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

