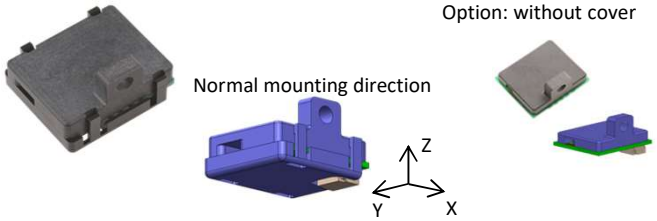
MITSUMI

Digital output flow velocity sensor

MMS651

Product image for illustration purposes only.



Outline

This product is a flow velocity sensor using MEMS technology. The product mounts a ⊿Σ AD converter with a resolution of 16bits and outputs a high-accuracy flow velocity value as a digital value. I2C is adopted for the interface and communication is performed with a microcomputer.

Applications

HVAC/VAV,FAN,Projector

Devices using air flow velocity

Features

① Small package

② High-accuracy measurement

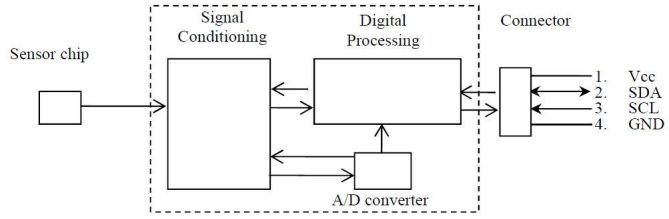
③ ⊿Σ AD converter with a resolution of 16 bits and outputs a high-accuracy velocity value as a digital value.

Specification（Draft）

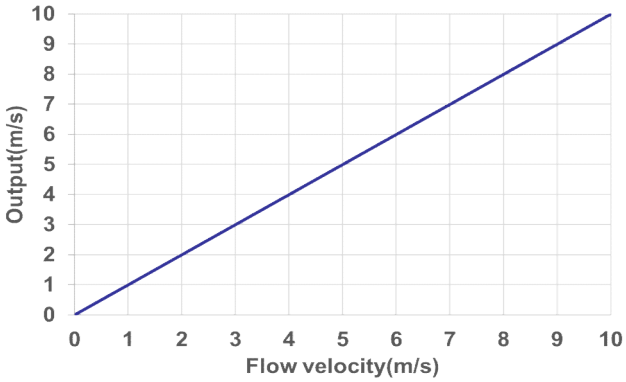
ITEM	SPECIFICATION
Calibrated for	Air
Measurement range(*)	0m/s to 10m/s
Accuracy	±5%RD (1m/s ≦flow velocity≦ 10m/s)
Supply Voltage	2.7V ～ 3.6V
Operating Temperature	-10℃ to 60℃
Resolution	16bit
Interface	I2C
Size	21.5(W) ×19.0(D) ×14.0(H)mm

*Measurement range can be customized

Block Diagram



Typical Performance Characteristics



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Highly accurate thermal flow type sensor (digital output) capable of capturing wind speeds of up to 10 m/s※.
(Digital output)

※Customizable

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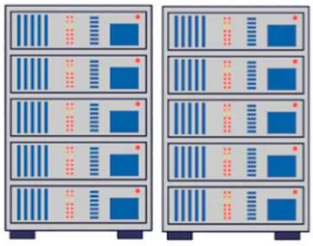
◆Example of use(How sensors are used)

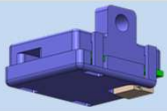
●HVAC/VAV
・Monitoring of ventilation system abnormalities

●Server
・Wind Speed Monitor
・Filter clogging detection



●anemometer
・Visualization of wind speed

◆Development Schedule

MMS651	TS	ES	MP
	Feb.'23	Sep.'23	Feb.'24

＊Please understand that the schedule is subject to change without notice.
＊Other specifications Please contact us individually for more information.