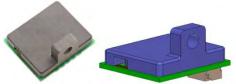


Digital output flow velocity sensor

MMS651

Product image for illustration purposes only.



Outline

This product is a flow velocity sensor using MEMS technology. The product mounts a $\Delta\Sigma$ 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

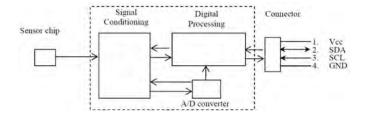
- 1 Small package
- 2 High-accuracy measurement
- ③ ΔΣ AD converter with a resolution of 16 bits and outputs a high-accuracy velocity value as a digital value.

Specification (Draft)

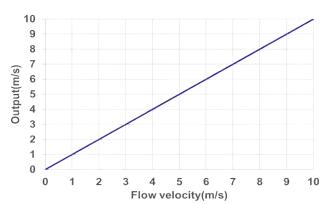
ITEM	SPECIFICATION		
Calibrated for	Air		
Measurement range(*)	0m/s to 10m/s		
Accuracy	±5%RD (1m/s ≦flow velocity≦ 10m/s)		
Supply Voltage	2.7V ~ 3.6V		
Operating Temperature	-10℃ to 60℃		
Resolution	16bit		
Interface	I2C		
Size	20.0(W) ×17.0(D) ×13.0(H)mm		

^{*}Measurement range can be customized

Block Diagram



Typical Performance Characteristics







minebeamitsumi semiconductor

tps://product.minebeamitsumi.com/en/product/category/sensor/ic

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- $\blacksquare \ \, \textbf{The details listed here are not a guarantee of the individual products at the time of ordering. When using the products, you will be asked to check their specifications.}$

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

****Customizable**

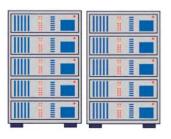
This product is a flow velocity sensor using MEMS technology. The product mounts a $\Delta\Sigma$ AD converter with a resolution of 16bits and outputs a high-accuracy flow velocity value as a digital value.

- ◆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	May.'23	Oct.'23

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