

Digital output differential pressure sensor

MMS601

PRELIMINARY

Product image for illustration purposes only.



Outline

This product is a small differential pressure sensor using MEMS technology. Thermal flow MEMS can be high-accuracy measurement with low pressure level. The product mounts a $\Delta\Sigma$ AD converter with a resolution of 24 bits and outputs a high-accuracy pressure value as a digital value. I2C is adopted for the interface and communication is performed with a microcomputer.

Applications

CPAP, Ventilator, HVAC/VAV

Devices using air differential pressure

Features

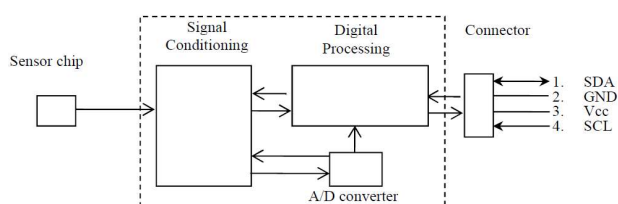
- ① Small package 26.0(W) × 18.0(D) × 24.0(H)mm
- ② High-accuracy measurement with low pressure level
- ③ $\Delta\Sigma$ AD converter with a resolution of 24 bits and outputs a high-accuracy pressure value as a digital value.

Specification (Draft)

ITEM	SPECIFICATION
Calibrated for	Air
Measurement range	-500Pa to 500Pa / 0Pa to +250Pa / -50Pa to 50Pa
Zero point accuracy	±0.2Pa
Span accuracy	±3%RD
Supply Voltage	2.7V ~ 3.6V
Flow step response time	5msec
Span shift due to temperature variation	0.5%RD/10°C
Operating Temperature	-20°C to 80°C
Resolution	24bit
Interface	I2C
Size**	22.0(W) × 18.0(D) × 15.0(H)mm

※TBD

Block Diagram



Typical Performance Characteristics

