

HM2211

MEMS mass flow sensors for air speed metrology

FS7002 series

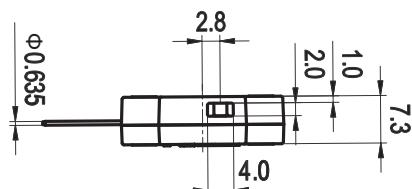
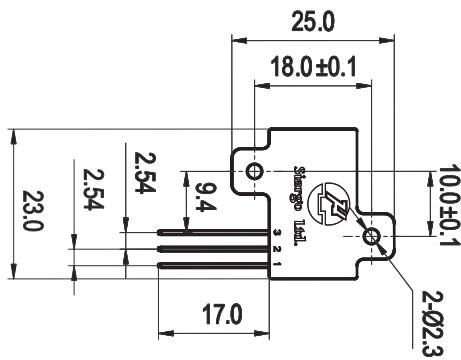
This serial of mass flow sensors are designed for air mass flow speed metering in an open space utilizing the Company's proprietary MEMS sensing technology. It can also be used for general purpose flow measurement when small footprint is required.

Features

- ◎ Designed for free space air mass flow speed
- ◎ Fast response time
- ◎ Compact footprint
- ◎ Both analog interface
- ◎ Large turn-down ration over 100:1
- ◎ Flow switch capability

Applications

- * Free space gas flow speed measurement
- * Filter clogging sensing
- * Compact space flow measurement
- * Instrumentation
- * Wearable device applications
- * Motor or fan monitor



Specifications

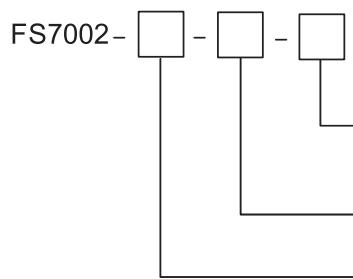
Model	FS7002-B	FS7002-C	Unit
Flow range	0 ~ 5	0 ~ 10	m/sec
Repeatability	±3.0	±2.0	%FS
Turn-down ratio	> 50:1		
Power consumption	≤ 50.0		mW
Response time	20		msec
Maximum pressure rating	0.2		MPa
Humidity rating	<95 (no icing or condensation)		%RH
Temperature	- 10 ~ 70		°C
Power supply	5 ± 5%		Vdc
Offset	0.2 ~ 0.8		Vdc
Full scale output	2.5 ~ 3.3		Vdc
Output load	Sourcing: 14; Sinking: 11		mA
Mechanical connection	Flat-cut		
Weight	2.7		g

Notes: * The above parameters are applicable at 20°C and 101.325kPa, air calibration.

** Digital interface can be customized.

Order information

The sensor part number is composed of the model number and suffixes indicating the full scale flow rate, output format as well as the calibration gas. Refer to the followings for details.



The default gas is air, A. For any other gases, please mark "X" and contact the manufacturer.

Maximum flow rate.¹ (For any other flow range within the specification)

Product model name (B or C)

1. Numerical maximum flow rate available for FS7002B starts at 2 m/sec; and for FS7002C starts at 6 m/sec.

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