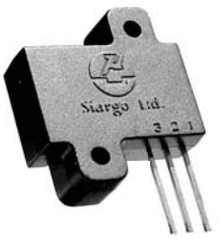



# MEMS mass flow sensors

## for air speed metrology

FS7002 series

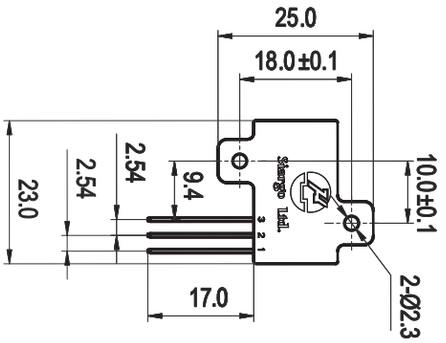
This serial of mass flow sensors are designed for air mass flow speed metering in an open space utilizing the Company's proprietary MEMS sensing technology. It can also be used for general purpose flow measurement when small footprint is required.

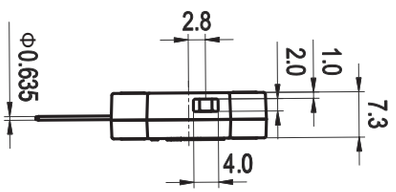
## Features

- 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

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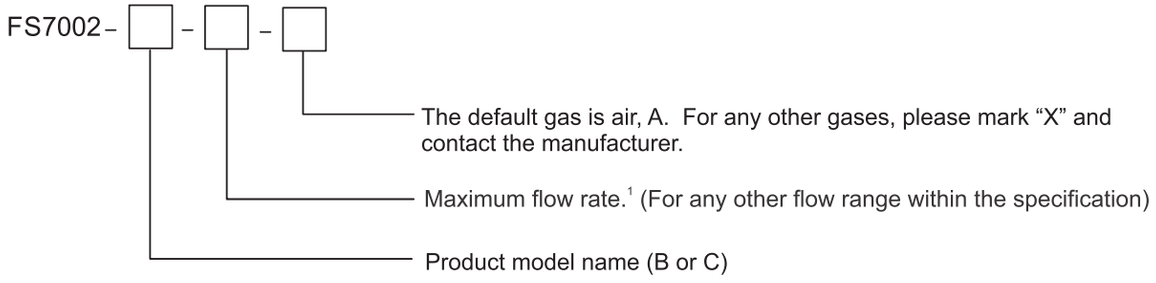
## Specifications

| 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.




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

- **Please find your local sales contact at www.Siargo.com.**
- **For detailed product information or user manual please contact manufacturer.**