

## FRn03H

- Multiple signal outputs
- High measurement repeatability
- High sensor sensitivity



## FRn03P

- Surface mount structure
- High measurement repeatability
- Low voltage loss



| Size                  |                                     | FRn03H                                                      | FRn03P                                             | Unit |
|-----------------------|-------------------------------------|-------------------------------------------------------------|----------------------------------------------------|------|
| Data                  |                                     | Specification                                               | Specification                                      |      |
| Flow Measurement      | Max. Flow                           | 50/100/200/300/400/500<br>1000/2000                         | 50/100/200/300/400/500<br>1000/2000/3000/4000/5000 | SCCM |
|                       | Accuracy                            | $\pm (2+0.5FS)$                                             |                                                    | %    |
|                       | Repeatability                       | $(0.5+0.15FS)$                                              |                                                    | %    |
|                       | Maximum working pressure            | 200                                                         | 500                                                | kPa  |
|                       | Maximum working pressure            | $\leq 110$<br>$\leq 150$                                    | $\leq 60$<br>$\leq 1000$                           | Pa   |
|                       | Working Temperature                 | 0~50                                                        |                                                    | °C   |
| Output Signal         | Output Method                       | Digital I <sup>2</sup> C & Analog 0.5V~4.5VDC               |                                                    |      |
|                       | I <sup>2</sup> C communication rate | 100                                                         |                                                    | kHz  |
|                       | Signal response time                | $\leq 50$                                                   |                                                    | ms   |
| Electrical Parameters | Operating voltage                   | 5~15                                                        |                                                    | VDC  |
|                       | Operating current                   | $\leq 30$                                                   |                                                    | mA   |
|                       | Electrical interface                | PH2.0-5P plug-in connector or 2.54-5pin pin header optional |                                                    |      |
| Other                 | Storage temperature                 | -20~65                                                      |                                                    | °C   |
|                       | Measurement medium                  | Dry, clean non-corrosive gases                              |                                                    |      |

## FRn06

- 5L/10L/15L/20L optional
- High sensitivity
- High measurement repeatability



## FRn08

- 50L/100L optional
- High stability over the entire range
- Quick plug, easy to install and use



| Size                  |                          | FRn06                                          | FRn08                                            | Unit |
|-----------------------|--------------------------|------------------------------------------------|--------------------------------------------------|------|
| Data                  |                          | Specification                                  | Specification                                    |      |
| Flow measurement      | Bore                     | 6                                              | 8                                                | mm   |
|                       | Max Range                | 5/10/15/20                                     | 50/100                                           | SLM  |
|                       | Accuracy                 | $\pm (2+0.5FS)$                                |                                                  | %    |
|                       | Repeatability            | $(0.5+0.15FS)$                                 |                                                  | %    |
|                       | Maximum working pressure | 200                                            |                                                  | kPa  |
|                       | Working Temperature      | 0~50                                           |                                                  | °C   |
| Output                | Output method            | Digital output PC or Analog output 0.5V~4.5VDC |                                                  |      |
|                       | PC Communication rate    | 100                                            |                                                  | kHz  |
|                       | Response Time            | $\leq 50$                                      |                                                  | ms   |
|                       | Working Voltage          | 5~15                                           |                                                  | VDC  |
| Electrical parameters | Working Current          | $\leq 30$                                      |                                                  | mA   |
|                       | Electrical interface     | PH2.0-5P Plug-in Connector                     |                                                  |      |
| Other Information     | Storage Temperature      | -20~65                                         |                                                  | °C   |
|                       | Mechanical interface     | Dry and clean non-corrosive gas                |                                                  |      |
|                       | Measuring medium         | $\phi 6$ -G1/8 Pneumatic Push-in Fitting       | $\phi 8$ - 1/4 Pneumatic Push-to-Connect Fitting |      |

# Gas Flow Sensors

## FRn20

- High accuracy and repeatability
- Low power consumption
- No recalibration required
- High sensor sensitivity with extremely low start-up flow
- Multiple signal output options



| FRn20                 | Parameter                | Value                                         | Unit |
|-----------------------|--------------------------|-----------------------------------------------|------|
|                       | Nominal diameter         | 20                                            | mm   |
| Flow measurement      | Max flow                 | 150、200、300                                   | SLM  |
|                       | Accuracy                 | $\pm(2+0.5FS)$                                | %    |
|                       | Repeatability            | $(0.5+0.15FS)$                                | %    |
|                       | Maximum working pressure | 200                                           | kPa  |
|                       | Working temperature      | 0~50                                          |      |
| Output signal         | Output                   | Digital I <sup>2</sup> C & Analog 0.5V~4.5VDC |      |
|                       | IIC communication rate   | 100                                           | kHz  |
|                       | Signal response time     | ≤50                                           | ms   |
| Electrical Parameters | Working voltage          | 5~15                                          | VDC  |
|                       | Working current          | ≤30                                           | mA   |
|                       | Electrical interface     | PH2.0-5P Plug-in Connector                    |      |
| Other                 | Storage temperature      | -20℃~65℃                                      |      |
|                       | Measurement medium       | Dry, clean non-corrosive gases                |      |

