

# Gas Flow Sensors

## FR03

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



Flow measurement	Maximum flow	500mL/min @20°C 101.325kPa
	Measurement accuracy	[25, 500] mL/min: ±2.5% [0, 25] mL/min: ±0.5%FS
	Repeatability	0.50%
	Working pressure	≤200kPa
	Burst pressure	≥0.7MPa
	Working temperature	0°C ~ 50°C
Output signal	Output method	Digital IIC or analog voltage
	Analog signal	Linearity 0.5V ~ 4.5V
	IIC communication rate	100kHz
	Signal refresh time	≤1ms
	Signal response time	≤3ms
	Electrical interface	PH2.0-5P plug-in connector
Other	Working voltage	DC5V ~ 14V
	Working current	≤30mA
	Storage temperature	-20°C ~ 80°C
	Measurement medium	Dry and clean non-corrosive gas
	ΔPmax	≤2000Pa

## FR03H

- 500ml/1L/2L/3L optional
- Low pressure loss
- High measurement repeatability



Flow measurement	Maximum flow	5L/min @20°C 101.325kPa
	Measurement accuracy	[0.15, 5] L/min ±2.5% [0, 0.15] L/min ±0.5%FS
	Repeatability	0.50%
	Working pressure	≤200kPa
	Burst pressure	≥0.3MPa
	Working temperature	0°C ~ 50°C
Output signal	Output method	Digital IIC or analog voltage
	Analog signal	Linearity 0.5V ~ 4.5V
	IIC communication rate	100kHz
	Signal refresh time	≤1ms
	Signal response time	≤3ms
	Electrical interface	PH2.0-5P Plug-in Connector or 2.54mm-5P Pin
Other	Working voltage	DC4.9V ~ 14V
	Working current	≤30mA
	Storage temperature	-20°C ~ 80°C
	Measurement medium	Dry and clean non-corrosive gas
	ΔPmax	≤1000Pa



Environmental monitoring



Respirators and ventilators



Mass flow controllers

# Gas Flow Sensors

## FR15

- Gas-connecting materials are biocompatible
- Fast response time
- Compact design



Flow measurement	Maximum flow	240L/min @20°C 101.325kPa
	Measurement accuracy	[9, 240] L/min: ±2.5% [0, 9] L/min: ±0.5%FS
	Repeatability	0.50%
	Working pressure	70kPa~107kPa
	Burst pressure	≥0.7MPa
	Working temperature	5°C ~ 55°C
Output signal	Output method	Digital IIC or linear analog voltage
	Analog signal	Linearity 0.25V ~ 2V
	IIC communication rate	400kHz
	Signal refresh time	≤1ms
	Signal response time	≤3ms
Temperature measurement	Measuring range	-20°C ~ 80°C
	Measurement accuracy	0°C ~ 80°C ±2.5°C -20°C ~ 0°C ±4°C
Other	Storage temperature	-20°C ~ 80°C
	Pressure loss	< 1800Pa @200L/min 101.325kPa
	Measurement medium	Dry and clean non-corrosive gas

## FR20

- High accuracy and repeatability
- Low power consumption
- No recalibration required



Flow measurement	Maximum flow	200L/min @20°C 101.325kPa
	Measurement accuracy	[9, 200] L/min: ±2.5% [0, 9] L/min: ±0.5%FS
	Repeatability	0.50%
	Working pressure	≤200kPa
	Burst pressure	≤0.7MPa
	Working temperature	0°C ~ 50°C
Output signal	Output method	Digital IIC or linear analog voltage
	Analog signal	Linearity 0.5V ~ 4.5V
	IIC communication rate	100kHz
	Signal refresh time	≤1ms
	Signal response time	≤3ms
Other	Electrical interface	PH2.0-5P plug-in connector
	Working voltage	DC4.9V ~ 14V
	Working current	≤30mA
	Storage temperature	-20°C ~ 80°C
	Measurement medium	Dry and clean non-corrosive gas
ΔPmax	≤1000Pa	

## FR06

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



Flow measurement	Maximum flow	20L/min @20°C 101.325kPa
	Measurement accuracy	[0.6, 20] L/min: ±2.5% [0, 0.6] L/min: ±0.5%FS
	Repeatability	0.50%
	Working pressure	≤200kPa
	Burst pressure	≥0.7MPa
	Working temperature	0°C ~ 50°C
Output signal	Output method	Digital IIC or analog voltage
	Analog signal	Linearity 0.5V ~ 4.5V
	IIC communication rate	100kHz
	Signal refresh time	≤1ms
	Signal response time	≤3ms
Other	Electrical interface	PH2.0-5P plug-in connector
	Working voltage	DC5V ~ 14V
	Working current	≤30mA
	Storage temperature	-20°C ~ 80°C
	Measurement medium	Dry and clean non-corrosive gas
ΔPmax	≤2000Pa	

## FR08

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



Flow measurement	Maximum flow	100L/min @20°C 101.325kPa
	Measurement accuracy	[5, 100] L/min: ±2.5% [0, 5] L/min: ±0.5%FS
	Repeatability	0.50%
	Working pressure	≤300kPa (customizable)
	Burst pressure	≥0.7MPa
	Working temperature	0°C ~ 50°C
Output signal	Output method	Digital IIC or analog voltage
	Analog signal	Linearity 0.5V ~ 4.5V
	IIC communication rate	100kHz
	Signal refresh time	≤1ms
	Signal response time	≤3ms
Other	Electrical interface	PH2.0-5P plug-in connector
	Working voltage	DC5V ~ 14V
	Working current	≤30mA
	Storage temperature	-20°C ~ 80°C
	Measurement medium	Dry and clean non-corrosive gas
ΔPmax	≤2000Pa	