



MEMS Integrated Sensors

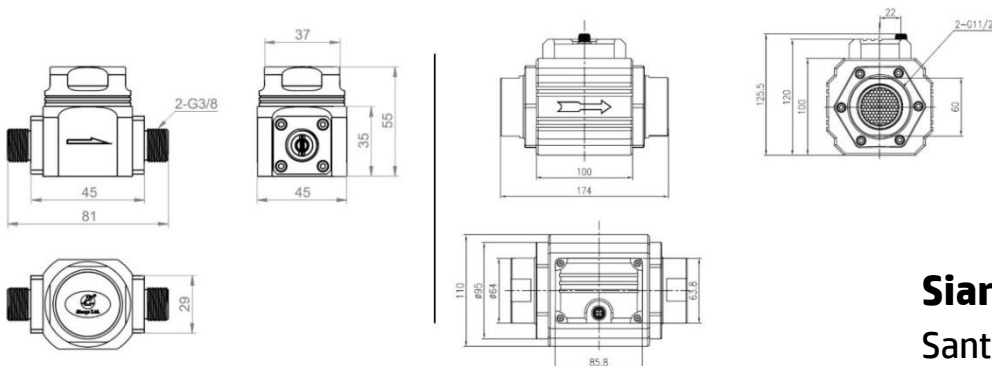
Multi-parameter sensing

FS6100 Series

FS6100 series mass flow sensors offer a unique solution for multi-parameter flow measurement with mass flow, gauge pressure, temperature, and humidity. It is designed for industrial process measurement and can also be applied for general purpose flow metering and control applications, such as compressed air where high flow rate data are required. The current models can be readily applied to food and beverage processes, industrial air management, and many process control applications.

FS6100 has a pressure rating over 1.0 MPa and opted with gas concentration measurement for two gas mixture. With a 50 mm (2") diameter, it can measure up to 10000 SLPM air.

Dimensions



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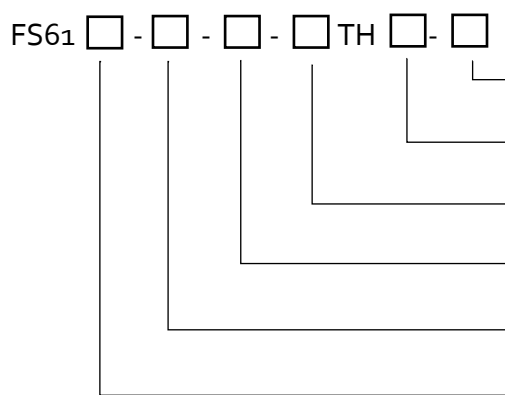


Specifications

Flow	Range	0~100 (6110) / 0~10000 (6150)	SLPM
	Accuracy	$\pm(2.0+0.5FS)$	%
Pressure	Range	0~1.0 (gauge)	MPa
	Accuracy	± 1.0	%
Temperature	Range	-10 ~ 60	Vdc
	Accuracy	± 0.5	%
Humidity*	Range	0~100 (no condensation)	%RH
	Accuracy	± 2.0 (20~80%RH); ± 5.0 , others	%
	Humidity response	5.0 (25~75%RH)	sec
	Other response time	50	msec
	Power supply	8~24	Vdc
	Compensation range	-5 ~ 60	°C
	Output	I ² C / RS485 / 4~20mA	
	Mechanical	BSPP / NPT	
	Pin-out	6 pins, AMPMODU MTE, or compatible	
	Calibration	Air @ 20°C, 101.325 kPa (flow, pressure)	
	Storage temperature	-20 ~ 70	°C

Note: Parameters specified at the calibration conditions. For detailed specifications, refer to the manual. Humidity sensing may require long sensing stable time, not recommended for nonessential applications.

Product and order selection



Gas: A – air; C – CO₂; N – N₂; O – O₂; R – Ar.
For other gases, please contact the manufacturer.

Connector: R – BSPP; N – NPT; X – customized.

Temperature/humidity sensor: 0 or 1 (0 for null)

Gas pressure: 0 ... 1 MPa (0 for null)

Full scale flow rate: 100... 10000 (2" or 50mm)

Pipe diameter DN: 10 (3/8") ... 50 (2")