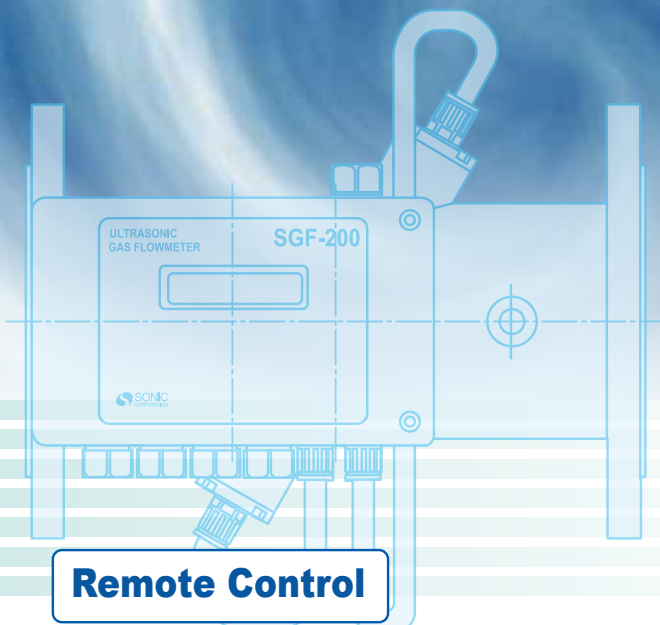
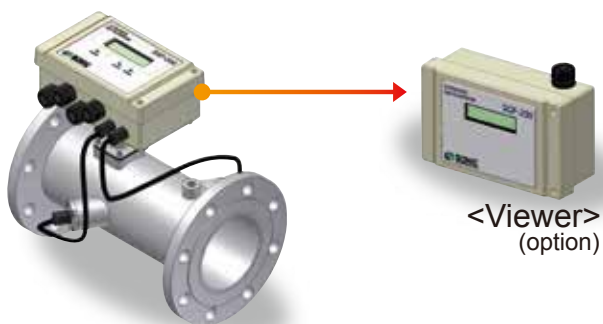


Ultrasonic Gas flowmeter SGF-200

ULTRASONIC GAS FLOWMETER



Viewer (option): Remotely controls and configures parameters, various display menu of integrated flowrate, transient flowrate, temperature and pressure level.



■ Features

- Wider measurement range and high accuracy
- Temperature automatic correction
- Attachable to vertical piping
- Integrated flow rate and instant flow rate selectable output

Lineup (nominal diameter)
40mm, 50mm, 65mm, 80mm,
100mm, 125mm, 150mm

■ Converter

● Specifications

Model: SGF-200

Measurement method: Ultrasonic transit time method

Applicable liquid: Air, Oxygen, Nitrogen, Gas (no corrosive gas)

Measurement accuracy: $\pm 2\%RD$ (flow speed 1 ~ 30m/s)
 $\pm 2cm/s$ (flow speed less than 1m/s)

Flow range: 0 ~ 30m/s

Temperature measurement: Ultrasonic thermometer (Air only)

Accuracy: $\pm 2^\circ C$

Structure: Outdoor use (IP65 equivalent)

Material: ADC12

Paint color: White ivory (Munsell 5Y8/1.5)

Ambient temperature: $-10 \sim +50$

Humidity: No dew condensation

Power supply: AC90 ~ 250V (50/60Hz)

DC24V $\pm 10\%$

Power consumption: less than 7.5VA

Weight: Approximately 1.6kg

● Output

Analog output: Contents: Instant flow rate (normal flow or reverse flow)

Signal: DC4 ~ 20mA

Load resistance: less than 600 Ω

Time constant: 0 ~ 120sec (1sec step)

Low-cut: 0 ~ 10% (1% step)

Contact output: Contents: normal / reverse flow integrated pulse,
upper / lower limit alarming,
anomaly signal, range over

Signal(x3): Open collector standard 30V, 0.25V

Pulse width: 1 msec or 50 msec

Low-cut: 0 ~ 10% (1% step)

Digital output: Contents: instant flow rate, integrated flow rate, temperature,
pressure, alarm

Serial interface: RS422 (baudrate: 38400bps)

● Input

Temperature input: Current input: DC4 ~ 20mA (input resistance 200 Ω)

Conversion standard: $0^\circ C$

Pressure input: Current input: DC4 ~ 20mA

Conversion standard: 101.325kPa(abs)

● Display

LCD: 16 characters x 2 lines LED back light

Contents: instant flow rate, cross section average flow speed,
integrated flow rate(normal, reverse, differences),
temperature, pressure

■ Spool piece

Nominal diameter: 40mm, 50mm, 65mm, 80mm, 100mm, 125mm, 150mm

Material: Metal parts: SGP, SS400 (Nickel plating)

Sensor parts: aluminum alloy, epoxy resin

Seal parts: NBR

Condition: Temperature range: $0 \sim 60^\circ C$

Pressure range: less than 1MPa

Installation requirement: Upper stream side 10D, Lower stream side: 5D or more
(D is inner diameter)

■ Viewer (* option)

● Model

CV-200

● Display

LCD: 16 characters x 2 lines, back light

Contents: instant flow rate, cross section average flow speed, integrated flow rate(normal, reverse, differences),
temperature, pressure

● Operation: Parameter configuration

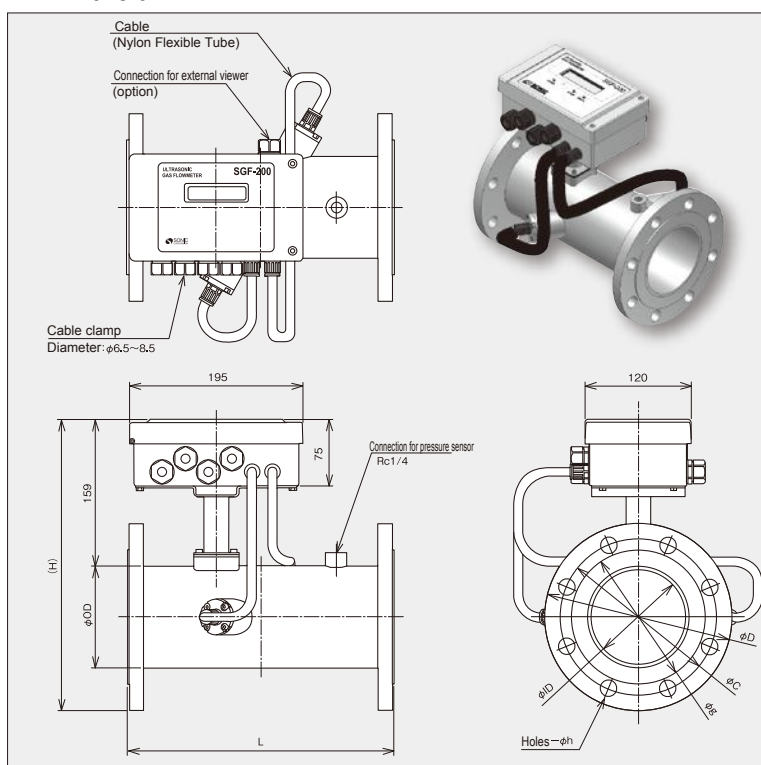
● Output: Digital output: instant flow rate, integrated flow rate, temperature, pressure, alarm information

Serial interface: RS422 (Baudrate: 38400bps)

● Accessory: Cable(max. 30m): 1 cable

*SGF-200 is under the control of viewer if the viewer option is selected.

■ Dimension



■ Specification table for nominal diameter

Nominal diameter(mm)	Dimension (mm)								(H)	L	Approx. weight (including converter) [kg]	Max. flow rate		
	Flange spec.:JIS10kRF					Steel pipe spec.:JIS G3452		Flow rate [m³/h]				30℃, 0.5MPa [m³/h·ntp]	30℃, 0.7MPa [m³/h·ntp]	
	φD	φC	φh	Holes	φg	φOD	φID							
40	140	105	19	4	81	48.6	41.6	253	200	8.8	140	740	980	
50	155	120	19	4	96	60.5	52.9	267	230	9.8	230	1200	1600	
65	175	140	19	4	116	76.3	67.9	285	250	11.9	390	1980	2650	
80	185	150	19	8	126	89.1	80.7	296	300	12.7	550	2800	3750	
100	210	175	19	8	151	114.3	105.3	321	300	14.7	930	4780	6380	
125	250	210	23	8	182	139.8	130.8	354	350	19.6	1400	7400	9850	
150	280	240	23	8	212	165.2	155.2	382	400	25.4	2000	10400	13900	

⚠ CAUTION FOR SAFETY : Please read surely INSTRUCTION MANUAL before operating.

● Specification is subject to change without prior notice for improvement.



HEAD OFFICE

1-18-2, Akebono, Tachikawa, Tokyo, JAPAN 190-0012

TEL. +81-42-512-5496 FAX. +81-42-595-9950

URL <http://www.u-sonic.co.jp/english>

email : info@u-sonic.co.jp

Singapore Representative office

80 Robinson Road #10-01A Singapore068898

Tel +65-6420-6250