

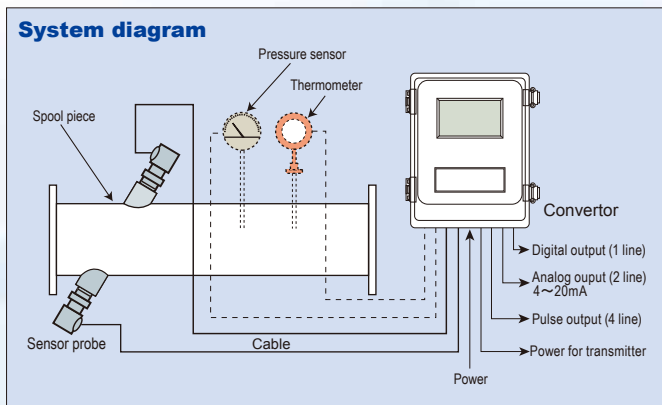
Ultrasonic Gas flowmeter GF-2500



The renewal of 30 years supply record GF series gas flowmeter. Equipped with ultrasonic thermometer, wide screen display and multi-level output interface. Maximize the performance of GF-2500, controls and monitors any gas flow save the energy and cost.

Features

- Wide-screen LCD and various display function
- High noise tolerance design
- No pressure loss
- Various output port (analog x2, digital x1, contact x4)
- Automatic pressure and temperature correction
- Easy replacement with the compatibility of existing sensor.
- Wider measurement range



Converter

Product

Name	Model	Unit	Weight	Remarks
Converter	GF-2500	1	8.5kg	—
Sensor	TS-□□□□	2*	approx. 1kg/unit	—
Cable	JCG-06	2*	0.6kg/cable	6m
	JCG-10	2*	0.8kg/cable	10m

*1 is 1 chordal path. x2 unit is required for 2 chordal path. Gas seal unit and probe fittings are option to select for the hot swap of sensor probe during the monitoring.

Specifications

Pipe

Fluid condition: Gas and steam
 Applicable pipe diameter: Nominal diameter 50mm~5000mm (*1)
 Spool piece: Pipe diameter...50mm~500mm (*2)
 Flange...JIS10k standard (*3)
 Material...SGP, STPG, SUS304, SUS316, STPY(*4)
 Socket: Standard type... Screw type
 Flange type (Screw type with sensor)
 Flange type (Large sensor type)

Sensor probe

Sensor probe: Gas...Standard (screw type) nominal diameter 50mm~1000mm(*5)
 temperature -30°C~180 °C
 pressure -0.05Pa~1MPa (-0.5 ~10kgf/cm²)
 Large(flange type) nominal diameter 1000mm~(*5)
 temperature -30°C~180°C
 pressure -0.05Pa~1MPa (-0.5 ~10kgf/cm²)
 Steam...Standard (flange type) 1MPa (10kgf/cm²) type
 Custom (*6)

Seal: Probe fittings... Combine with gas seal unit
 Gas seal unit... standard, steam, large, custom
 Gas seal adaptor... instead of gas seal unit (not used)

Installation requirement: Upper stream side 15D,
 Lower stream side: 5D or more
 (D is inner diameter)

Cable: Distance from sensor probe to converter, 6m or 10m (standard)

*1 : Consult sales representative if used over 4000mm.

*2 : Consult sales representative if used over 500mm.

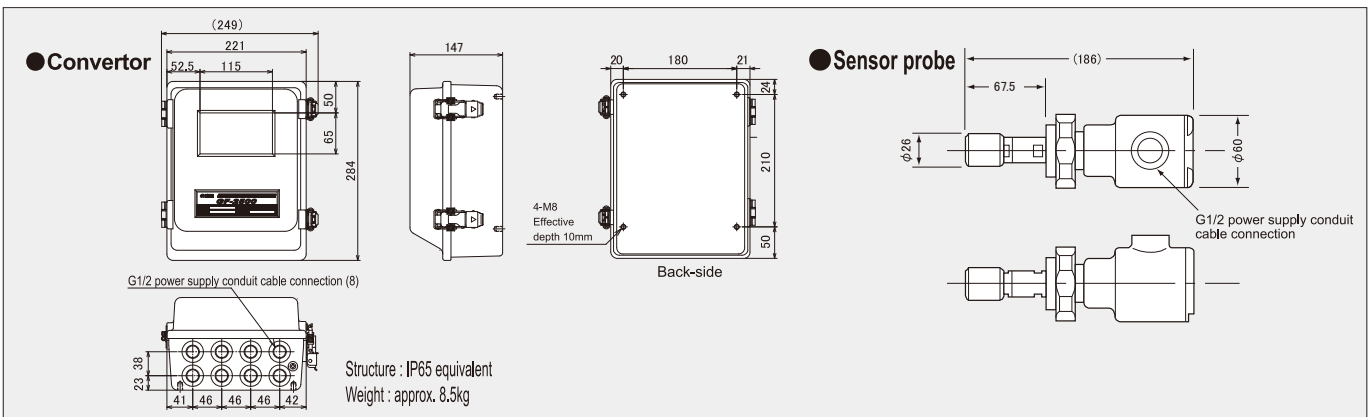
*3 : Consult sales representative if used any flanges other than JIS10k

*4 : Consult sales representative if used any materials other than those above

*5 : Applicable gas to measure depends on density, temperature, pressure and velocity.

*6 : Consult sales representative if you have any questions.

Dimension



Converter

General: Measurement method... Ultrasonic transit time method

Chordal path ... 1 path or 2 path (option)

Traverse... Z or V

Measurement compensation range... temperature +/-25°C, pressure +/- 30%

Accuracy... ± 1.0% FS (flow velocity 5 ~ 60m/s)

Reproducibility ... 0.2%

Flow velocity resolution... less than 0.5mm/s

Averaging... Default 10 sec (0.5 ~ 180 sec variable)

Ultrasonic thermometer... Measure temperature (in case of air) by ultrasound transit time

Ambient temperature... -10 ~ +50°C

Power supply: Power supply... AC100V±10%, 50/60Hz, AC115V, 220V (option)

Surge protection... Built-in surge absorber

Power dissipation... Max.25W

Output: Analog output1... Range: DC4~20mA, isolated

Over range: DC0~24mA

Load resistance: Less than 1000Ω

Analog output2... reverse flow, temperature, pressure

Range: DC4~20mA, isolated

Over range: DC0~24mA

Load resistance: Less than 1000Ω

Pulse output1... Integrated pulse

Open collector standard 30V, 0.2A

Pulse width: 1.6ms or 50ms

Pulse output2... Integrate pulse, alarm, normal and reverse flow, upper I and lower limit

Open collector standard 30V, 0.2A

Pulse output3... Alarm, normal and reverse flow, upper I and lower limit

Open collector standard 30V, 0.2A

Pulse output4... Alarm, normal and reverse flow, upper I and lower limit

Open collector standard 30V, 0.25A

Power supply for pressure and temperature... DC24V±0.5V 0.2A

Digital output... RS422 x 1

Input: temperature... DC4 ~ 20mA

Pressure... DC4 ~ 20mA

Display: LCD... 128 x 240 dots LED back right

Character... Alphanumeric, mathematical symbol (ex, +, -, Σ)

Display contents... Measurement display

Instantaneous flow rate (analog1,2)

Integrated count (analog1,2)

Max flow rate (analog1,2)

Input temperature, pressure, ultrasonic temperature meter

It can display content of 4 in all contents.

Configuration view... diameter, temperature, pressure, flow range

Adjustment view... zero point adjusting, change of time constant, low-cut

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

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



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