

Inexpensive PD for Boiler Feed Water and Oil

FLOWPET-5G

GENERAL SPECIFICATION
GS.No.GBB324E-2

■ GENERAL

FLOWPET-5G is an OVAL flowmeter primarily intended for use in boiler feed water and fuel oil metering applications. Field proven accuracy and long life along with the best price/performance and ease of use make this industrial meter ideal as a dedicated tool for heat control.

■ FEATURES

- 1. Available in two product families for water service and fuel oil service.
- Newly designed electronic register shows total flow and instantaneous flow on a digital LCD at the touch of mode select switch. The display angle can be adjusted for better visibility (Adjustable range: 75 degrees upward, 75 degrees downward).
- 3. The electronic register equipped models have an internal battery (good for 8 years); eliminates the need for an external power source. (Operation on external power source is recommended for the pulse output models.)
- Improved display capabilities compared to the previous EG register.
 - LCD character height increased to 14mm from 10mm
 Flow indicator allows user to intuitively check
 instantaneous flow rate



- 5. Factored pulse width is variable in 1ms steps with the front-panel buttons (adjustable 1 to 999ms).
- 6. Simulated outputs available. (Pulse generator furnished meter only)
 - Pulse and analog output can be simulated at any flow rate for loop tests.
- 7. Reliable engineering-unit pulses for total flow and fast pulse output are available.
- 8. Analog output available (2-wire, 4 to 20mA)

■ Electronic Register Specifications

Item		Description							
Display	② Instantaneous f ③ Instantaneous f	Accumulated total flow (8-digit) Instantaneous flow rate, L/h (mode: b1) Instantaneous flow rate, L/min (mode: b2) Resettable total flow (zero start/zero resettable, mode: C) (7-digit)							
Function	2 LCD with 7-seg3 Flow indicator (4 Simulated outping	① Low battery alarm (Low battery indicator "							
Register accuracy	Total flow: ±1 cour	t, Instantaneous flow rate: within ±1% of full scale							
Display orientation	150° range in 15°	steps (From horizontal position: upward 75°, downward 7	75°)						
Flow detection	Magnetic sensor d	etects alternating magnetic fields. Response frequency 2	200Hz max.						
	Output type	Open drain (equivalent of open collector)							
Pulse output	Capacity	Capacity Allowable current: 20mADC, Max. voltage applied: 30V							
ruise output	Pulse type	Factored	Unfactored						
	Pulse width	1ms, 50ms, 100ms, 250ms (*1)	2ms (fixed)						
	Output type	Output type							
Alarm output	Capacity	Capacity Allowable current: 20mADC, Max. voltage applied: 30V							
(optional)	Alarm output point	Up to 2 points ("High alarm instant flow rate" or "Low alarm instant flo	ow rate" can be set with any value for each output point)						
Analog output	4 to 20mADC (load	d resistance: see P.11 "acceptable load resistance range"	")						
Cable		eathed, 4-conductor (individual elements $0.25 mm^2$, $\varphi 6.3$ n models without pulse generator)	O.D.) cable furnished (standard)						
Transmission distance		when CVVS: 1.25 to 2.0mm ² cable is used) g output and pulse/alarm output, the transmission distand	ce is 100m max. (when CVVS: 1.25 to 2.0mm ² cable is used)						
	Battery pack or ex	ternal power source							
Power course (*2)	Battery pack	Lithium battery: 3.6VDC 5400mAh Battery life: 8 years	s (varies with operating conditions) Storage life: 10 years						
Power source (*2)	External power source	External Pulse output : Current capacity 10mA or more							
Ambient temperature range	-10 to +60°C (no c	-10 to +60°C (no condensing)							
Material	Polycarbonate (bla	ack)							
Configuration	IP65 (Install under	the eaves)							

^{*1:} Adjustable with button operation within the range of 1 to 999ms in 1ms increments. Shown above are default settings.

■ EN STANDARDS CONFORMITY

Applicable EU Directive	EMC Directive: 2014/30/EU	RoHS Directive: 2011/65/EU
Applicable EN standards, etc.	EMC Directive: EN61326-1: 2013 Class A	RoHS Directive: EN50581: 2012

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^{*2:} Display functions and pulse output functions can be used just with the dedicated battery pack without an external power source. (With an external power source, there is no need to worry about the battery life. The power will be automatically switched to battery power in case of power shut-down.) An external power source is necessary for analog output.

FLOWPET-5G for Oil Service

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Flow Range

	Nominal Size		Flow Range, L/h	
Model	mm	Kerosene (Above 0.8mPa•s to 2mPa•s)	Gas Oil (heavy oil A) (Above 2mPa•s to 5mPa•s)	Heavy oil (Above 5mPa•s to 200mPa•s)
LS4976-5 □□ A B	20	10 to 800	7 to 800	5 to 800
LS5076-5 □□ A B	20	150 to 1600	80 to 2000	50 to 2000
LS5276-5 □□ A B	25	300 to 3000	150 to 3800	80 to 3800
LS5376-5 □□ A B	40	600 to 5000	300 to 6400	150 to 6400
LS5576-5 □□ A B	40	1200 to 11000	600 to 14000	400 to 14000
LS5676-5 □□ A B	50	2000 to 20000	1400 to 24000	900 to 24000

Meter Specifications

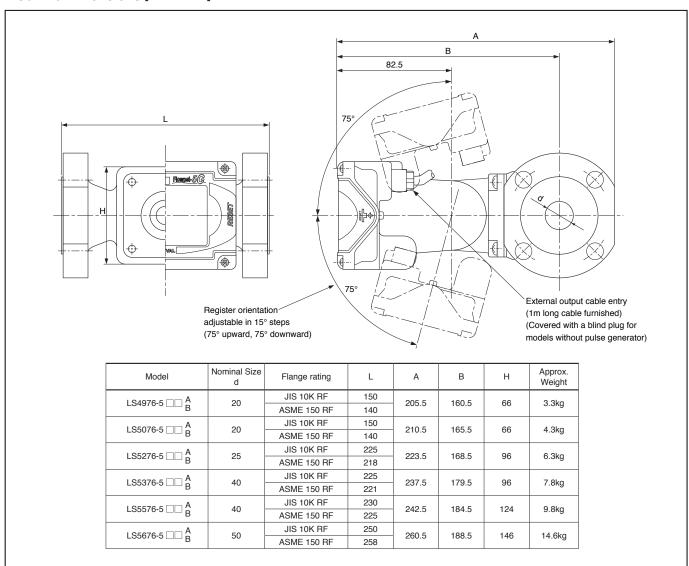
	Item	Description		
Applicable fluid		Kerosene, Gas Oil, Heavy oil *Not serviceable with gasoline		
Operating temp.	range (fluid temp.)	0 to 120°C		
Flange rating		JIS 10K RF, ASME 150 RF		
Max. operating pressure		1.18MPa		
Accuracy		±0.5% of RD		
Material	Body	Cast iron (FC250)		
Material	Rotors	Special resin		
Flow directions *		Standard: Right → Left Option: Left → Right, Bottom → Top, Top → Bottom		
Finish		Orange: Munsell 2.5 YR 6/13		

Electronic Re	gist	er : Units	of Count	and Pulse	Outpu	ut Unit	ts						:Option
	E E					Outpu	ıt Pulse				Full Scales (st'd)		Man
Model ;;	Size, mm	Totalizer	Factored	F	actored F	Pulse Wid	th	Unfactored Output Pulse		Units of Instantaneous Flowrate L		Max. Flowrate	
	Nom. 8	Resolution	Pulse Units	Output Freq. at Max. Flowrate	1ms	50ms	100ms	250ms	Nom. Meter Factor	Output Freq. at Max. Flowrate	/h (mode b1)	/min (mode b2)	L/h
		999999.99	10mL/P	22.2	0	_	_	_					
LS4976-5 □□ A	20	9999999.9	100mL/P	2.2	0	0	0	0	5.928mL/P	37.49Hz	1	0.01	800
_		9999999	1L/P	0.22	0	0	0	0					
		999999.99	10mL/P	55.6	0	_	_	_				0.01	
LS5076-5 □□ A	20	9999999.9	100mL/P	5.56	0	0	0	_	9.912mL/P	56.0Hz	1		2000
_		9999999	1L/P	0.56	0	0	0	0					
		999999.99	10mL/P	105	0	_	_	_	9.639mL/P			0.01	3800
LS5276-5 □□ A B	25	9999999.9	100mL/P	10.5	0	0	_	_		109.5Hz	1		
_		99999999	1L/P	1.05	0	0	0	0					
		9999999.9	100mL/P	17.7	0	_	_	_					
LS5376-5 □□ A	40	99999999	1L/P	1.77	0	0	0	0	17.470mL/P	101.7Hz	1	0.01	6400
_		99999999	10L/P	0.17	0	0	0	0					
		99999999	100mL/P	38.8	0	_	_	_					
LS5576-5 □□ A	40	9999999	1L/P	3.88	0	0	0	_	34.526mL/P	112.6Hz	1	0.01	14000
5		99999999	10L/P	0.38	0	0	0	0					
		9999999.9	100mL/P	66.6	0	_	_	_				0.01	24000
LS5676-5 □□ A B	50	99999999	1L/P	6.66	0	0	0	_	74.483mL/P	89.5Hz	1		
	B	99999999	10L/P	0.66	0	0	0	0					

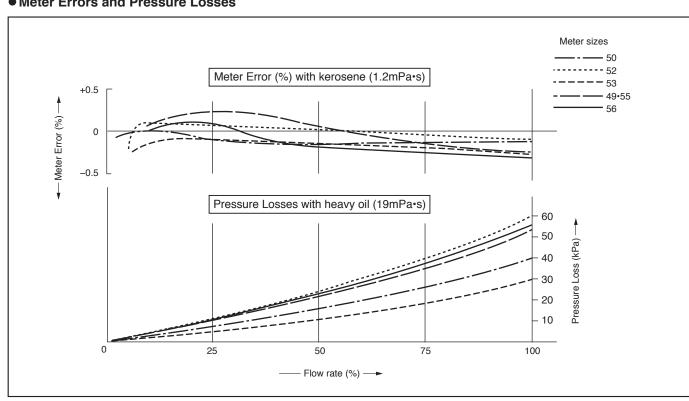
- Output frequency shows the value at max. flow rate.
 Shaded cells indicate optional setting (Unshaded sells: standard factory setting).
- 3. Factored pulse width can be adjusted to desired value in 1ms increments with button operation
 4. Full scale values of "Flow indicator display" and "Analog output" will be max. flow rate values in the table above. (Standard) The actual rated maximum flow rate varies by oil types.

FLOWPET-5G for Oil Service

Outline Dimensions [Unit in mm]



Meter Errors and Pressure Losses



GBB324E-2 FLOWPET-5G

FLOWPET-5G for Oil Service

Product Code Explanation

					Сс	de	No.						2			
Item	1	2	3	4	(5)	6	<u> </u>	(7	(8	3) (9	10	Description			
Model	L	S											Specialized OVAL flowmeter (Standard)			
			4	9									20A JIS 10K RF, ASME 150 RF (Option)			
			5	0									20A JIS 10K RF, ASME 150 RF (Option)			
Meter Size			5	2									25A JIS 10K RF, ASME 150 RF (Option)			
Meter Size			5	3									40A JIS 10K RF, ASME 150 RF (Option)			
			5	5									40A JIS 10K RF, ASME 150 RF (Option)			
			5	6									50A JIS 10K RF, ASME 150 RF (Option)			
Model Name					7								Flowpet			
Application						6	-						Oil service			
Register Type								5					Electronic register (5G)			
									(0		No output capability (Local display only)			
									3	3	0		Factored pulse (pulse width 1ms), +Unfactored pulse (*1)			
									5	5	0		Factored pulse (pulse width 50ms), +Unfactored pulse (*1)			
									6	3	0		Factored pulse (pulse width 100ms), +Unfactored pulse (*1)			
Pulse Generato	r (*	3)							7	7	0		Factored pulse (pulse width 250ms), +Unfactored pulse (*1)			
									3	3	1		Factored pulse (pulse width 1ms), +Unfactored pulse (*1) +Analog output or Analog output only (*2)			
									5	5	1		Factored pulse (pulse width 50ms), +Unfactored pulse (*1) +Analog output			
6 1		1		Factored pulse (pulse width 100ms), +Unfactored pulse (*1) +Analog output												
									7	7	1		Factored pulse (pulse width 250ms), +Unfactored pulse (*1) +Analog output			
Temperature Ra	anc.	0 20	d Ela	naa	rati	ina						Α	Standard (0 to 120°C), JIS 10K RF			
remperature na	arigi	e an	u rla	nge	rall	iiig						В	Standard (0 to 120°C), ASME 150 RF			

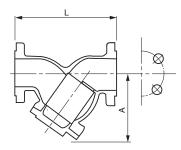
^{*1} Unfactored pulse width is fixed at 2ms.

☐ Strainers Dedicated for Oil-Service FLOWPET-5G

General

Do not fail to directly couple a strainer upstream of the Flowpet-5G.

A strainer safeguards the Flowpet-5G against foreign particles and other suspended matter which could cause costly downtime.



Specifications

	ltem	Description
Operating Temp.	Range (fluid temp.)	0 to 150°C
Max. Operating I	Pressure	1.18MPa
Material	Body	FC250
Material	Net	SUS304
Finish		Orange (Munsell 2.5 YR 6/13)

• Product Code, Outline Dimensions [Unit in mm], Net Mesh, Pressure Losses

Product	duct Nom.				Approx.	Net Mesh	Pressure Loss (kPa	a) at Max. Flowrate	Applicable	
Code No.	Size	Flange Rating	L	A	Weight kg	inet Mesn	Kerosene 1.2mPa•s	Heavy oil 19mPa•s	Flowpet-5G	
SS5278A	20A	JIS 10K RF	125	82	3.4	80	6 (1600L/h)	50 (2000L/h)	LS4976-5 □□ A B	
00027071	OA ZUA JIS IUK HF		120	02	0.1		0 (1000211)	, , , ,	LS5076-5 □□ A B	
SS5378A	25A	JIS 10K RF	140	104	5.3	60	7 (3000L/h)	28 (3800L/h)	LS5276-5 □□ A B	
SS5578A	40A	JIS 10K RF	170	129	7.7	60	23 (11000L/h)	26 (14000L/h)	LS5376-5 □□ A B	
0000707	70/1	010 1010111	170	120	7.7	00	20 (11000211)	20 (14000211)	LS5576-5 □□ A B	
SS5678A	50A	JIS 10K RF	190	153	9.6	60	25 (20000L/h)	40 (24000L/h)	LS5676-5 □□ A B	

^{*2} If using analog output only, "Factored pulse (1ms) + Unfactored pulse (2ms) + Analog output" will be the specification.

Wire analog output lines (2 lines of the power wire) and leave the ends of pulse output (SIG.1 and SIG.2) cables open (not connected).

^{*3} Alarm output specification is available as an option (See page 11).

FLOWPET-5G for High Temp. Oil Service

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LS	76-5	_
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Flow Range

	Nominal Size	Flow Range, L/h							
Model	mm	Kerosene (Above 0.8mPa*s to 2mPa*s)	Gas Oil (heavy oil A) (Above 2mPa•s to 5mPa•s)	Heavy oil (Above 5mPa•s to 200mPa•s)					
LS4976-5 □□ C D	20	20 20 to 800 14 to 8		10 to 800					
LS5076-5 □□ C D	20	300 to 1600	160 to 2000	100 to 2000					
LS5276-5 □□ C D	25	600 to 3000	300 to 3800	160 to 3800					
LS5376-5 □□ C D	40	1200 to 5000	600 to 6400	300 to 6400					

Meter Specifications

Item		Description			
Applicable fluid		Kerosene, Gas Oil, Heavy oil *Not serviceable with gasoline			
Operating temp.	range (fluid temp.)	0 to 150°C			
Flange rating		JIS 10K RF, ASME 150 RF			
Max. operating pressure		0.98MPa			
Accuracy		±0.5% of RD			
Material	Body	Cast iron (FC250)			
Rotors		Special resin			
Flow directions *		Standard: Right → Left Option: Left → Right, Bottom → Top, Top → Bottom			
Finish		Silver			

[♠] Install the meter so that the pipe is always filled with oil.

See instruction manual if changing flow direction is desired.

• Electronic Register : Units of Count and Pulse Output Units

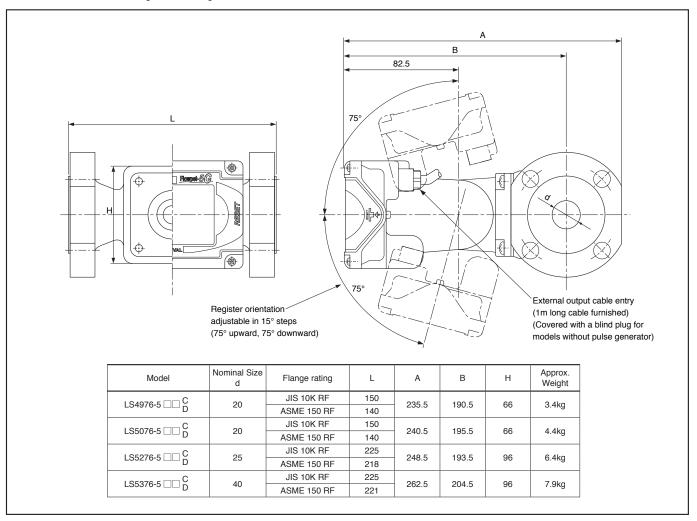
:Option

	mm					Outpu	t Pulse			1	Full Sca	les (st'd)	
Model	Size,	Totalizer	Factored	Factored Pulse Width				Unfactored	Output Pulse	Units of Instantaneous Flowrate L		Max. Flowrate	
	Nom. §	Resolution	Pulse Units	Output Freq. at Max. Flowrate	1ms	50ms	100ms	250ms	Nom. Meter Factor	Output Freq. at Max. Flowrate	/h (mode b1)	/min (mode b2)	L/h
		999999.99	10mL/P	22.2	0	_	_	_				0.01	
LS4976-5 □□ C D	20	9999999.9	100mL/P	2.2	0	0	0	0	5.928mL/P	37.49Hz	1		800
_		99999999	1L/P	0.22	0	0	0	0					
		999999.99	10mL/P	55.5	0	_	_	_				0.01	
LS5076-5 □□ C	20	9999999.9	100mL/P	5.55	0	0	0	_	9.912mL/P	56.0Hz	1		2000
		99999999	1L/P	0.56	0	0	0	0					
		999999.99	10mL/P	105	0	_	_	_					
LS5276-5 □□ C	25	9999999.9	100mL/P	10.5	0	0	_	_	9.639mL/P	109.5Hz	1	0.01	3800
	İ	99999999	1L/P	1.05	0	0	0	0					
		9999999.9	100mL/P	17.7	0	_	_	_					
LS5376-5 □□ C	40	99999999	1L/P	1.77	0	0	0	0	17.470mL/P	101.7Hz	1	0.01	6400
		99999999	10L/P	0.17	0	0	0	0					

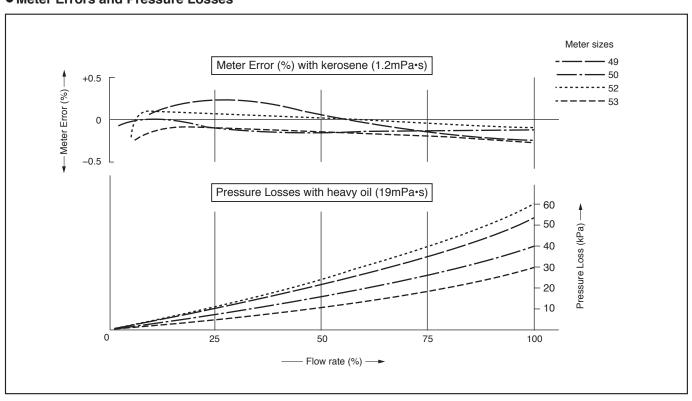
- 1. Output frequency shows the value at max. flow rate.
 2. Shaded cells indicate optional setting (Unshaded cells: standard factory setting).
 3. Factored pulse width can be adjusted to desired value in 1ms increments with button operation
- 4. Full scale values of "Flow indicator display" and "Analog output" will be max. flow rate values in the table above. (Standard) The actual rated maximum flow rate varies by oil types.

FLOWPET-5G for High Temp. Oil Service

• Outline Dimensions [Unit in mm]



Meter Errors and Pressure Losses



FLOWPET-5G for High Temp. Oil Service

Product Code Explanation

					Со	de	No.											
Item	1	2	3	4	(5)	6	-	- (7)	8	9	10	Description					
Model	L	S					Г	Т					Specialized OVAL flowmeter (Standard)					
			4	9									20A JIS 10K RF, ASME 150 RF (Option)					
Meter Size			5	0				Τ					20A JIS 10K RF, ASME 150 RF (Option)					
Meter Size			5	2									25A JIS 10K RF, ASME 150 RF (Option)					
			5	3				Τ					40A JIS 10K RF, ASME 150 RF (Option)					
Model Name					7								Flowpet					
Application						6	-						Oil service					
Register Type									5				Electronic register (5G)					
										0	0		No output capability (Local display only)					
										3	0		Factored pulse (pulse width 1ms), +Unfactored pulse (*1)					
										5	0		Factored pulse (pulse width 50ms), +Unfactored pulse (*1)					
										6	0		Factored pulse (pulse width 100ms), +Unfactored pulse (*1)					
Pulse Generato	r (*3	3)								7	0		Factored pulse (pulse width 250ms), +Unfactored pulse (*1)					
										3	1		Factored pulse (pulse width 1ms), +Unfactored pulse (*1) +Analog output or Analog output only (*2)					
										5	1		Factored pulse (pulse width 50ms), +Unfactored pulse (*1) +Analog output					
										6	1		Factored pulse (pulse width 100ms), +Unfactored pulse (*1) +Analog output					
										7	1		Factored pulse (pulse width 250ms), +Unfactored pulse (*1) +Analog output					
Temperature Dange and Flance rating				С	High temperature model (0 to 150°C), JIS 10K RF													
Temperature Range and Flange rating				D	igh temperature model (0 to 150°C), ASME 150 RF													

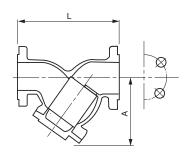
^{*1} Unfactored pulse width is fixed at 2ms.

☐ Strainers Dedicated for Oil-Service FLOWPET-5G

General

Do not fail to directly couple a strainer upstream of the Flowpet-5G.

A strainer safeguards the Flowpet-5G against foreign particles and other suspended matter which could cause costly downtime.



Specifications

Ite	em	Description		
Operating Temp. F	Range (fluid temp.)	0 to 150°C		
Max. Operating Pr	essure	1.18MPa		
Material	Body	FC250		
Material	Net	SUS304		
Finish		Orange (Munsell 2.5 YR 6/13)		

• Product Code, Outline Dimensions [Unit in mm], Net Mesh, Pressure Losses

Product	Nom.	Flange Rating		A	Approx.	Net Mesh	Pressure Loss (kPa	a) at Max. Flowrate	Applicable
Code No.	Size	Flatige Hatting	L	A	Weight kg			Heavy oil 19mPa•s	Flowpet-5G
SS5278A	20A	JIS 10K RF	125	82	3.4	80	6 (1600L/h)	50 (2000L/h)	LS4976-5 □□ C D
					-		,	,	LS5076-5 □□ C D
SS5378A	25A	JIS 10K RF	140	104	5.3	60	7 (3000L/h)	28 (3800L/h)	LS5276-5 □□ C D
SS5578A	40A	JIS 10K RF	170	129	7.7	60	23 (11000L/h)	26 (14000L/h)	LS5376-5 □□ C D

 ^{*2} If using analog output only, "Factored pulse (1ms) + Unfactored pulse (2ms) + Analog output" will be the specification.
 Wire analog output lines (2 lines of the power wire) and leave the ends of pulse output (SIG.1 and SIG.2) cables open (not connected).
 *3 Alarm output specification is available as an option (See page 11).

FLOWPET-5G for Water Service

LS 🔲 77-5 🔲 B

Flow Range

Model	Nominal Size mm	Flow Range, L/h
LS5277-5 □□ B	20	200 to 1200
LS5377-5 □□ B	25	600 to 3600
LS5577-5 □□ B	40	1200 to 7200
LS5677-5 □□ B	50	2000 to 12000

Meter Specifications

	Item	Description
Operating temp.	range (fluid temp.)	0 to 120°C
Flange rating		JIS 10K RF
Max. operating p	ressure	1.18MPa (with steady flow)
Accuracy		±1% of RD
	Body	Stainless steel casting
Material	Rotors	Special resin
	Register Housing	Polycarbonate
Flow directions 3	ķ	Standard: Right → Left Option: Left → Right, Bottom → Top, Top → Bottom
Finish		Not painted

 $\ensuremath{\underline{\dot{\uparrow}}}\xspace$ Install the meter so that the pipe is always filled with water.

The meters can not be used to measure steam flow.

See instruction manual if changing flow direction is desired.

• Electronic Register : Units of Count and Pulse Output Units

Full Sca		
ts of Instantar	neous Flowrate L	Max. Flowrate
/h node b1)	L/h	
1	0.01	1200
1	0.01	3600

:Option

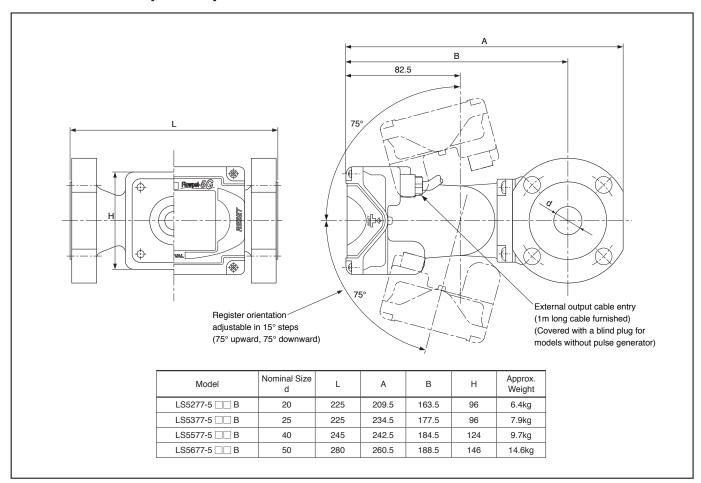
	mm					Outpu	ıt Pulse				Full Sca	Max. Flowrate	
Model	Size,	Totalizer	Factored	Output Pulse	Fa	actored F	Pulse Wid	th	Unfactored	Output Pulse	Units of Instantaneous Flowrate L		
	Nom. S	Resolution	Pulse Units	Output Freq. at Max. Flowrate	1ms	50ms	100ms	250ms	Nom. Meter Factor	Output Freq. at Max. Flowrate	/h (mode b1)	/min (mode b2)	L/h
		999999.99	10mL/P	33.3	0	_	_	_				0.01	
LS5277-5 □□ B	20	9999999.9	100mL/P	3.33	0	0	0	_	9.918	33.6	1		1200
		99999999	1L/P	0.33	0	0	0	0					
		9999999.9	100mL/P	10.0	0	0	_	_					
LS5377-5 □□ B	25	99999999	1L/P	1.00	0	0	0	0	17.955	55.7	1	0.01	3600
		99999999	10L/P	0.10	0	0	0	0					
		9999999.9	100mL/P	20.0	0	_	_	_					
LS5577-5 □□ B	40	99999999	1L/P	2.00	0	0	0	0	35.496	56.3	1	0.01	7200
		99999999	10L/P	0.20	0	0	0	0					
		9999999.9	100mL/P	33.3	0	_	_	_					
LS5677-5 □□ B	50	99999999	1L/P	3.33	0	0	0	_	76.455	43.6	1	0.01	12000
		99999999	10L/P	0.33	0	0	0	0					

NOTES:

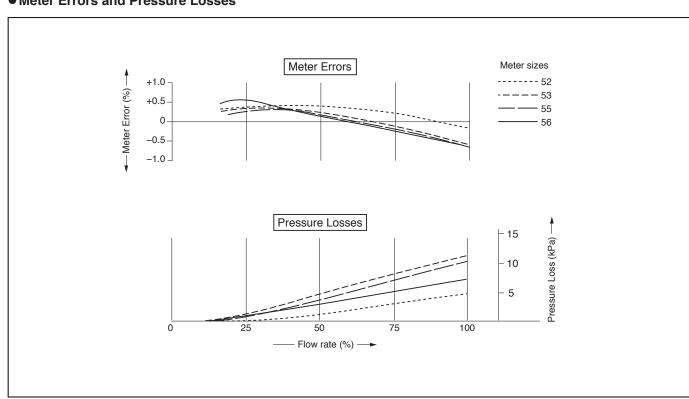
- Output frequency shows the value at max. flow rate.
 Shaded cells indicate optional setting (Unshaded cells: standard factory setting).
- 3. Factored pulse width can be adjusted to desired value in 1ms increments with button operation
- 4. Full scale values of "Flow indicator display" and "Analog output" will be max. flow rate values in the table above. (Standard)

FLOWPET-5G for Water Service

• Outline Dimensions [Unit in mm]



Meter Errors and Pressure Losses



FLOWPET-5G for Water Service

Product Code Explanation

				<u> </u>									
Item					Со	de	No.					Description	
item	1	2	3	4	⑤	6	-	7	(8	9	10	Description	
Model	L	S						П		Т		Specialized OVAL flowmeter (Standard)	
			5	2								20A JIS 10K RF	
Meter Size			5	3								25A JIS 10K RF	
Meter Size			5	5								40A JIS 10K RF	
			5	6								50A JIS 10K RF	
Model Name					7							Flowpet	
Application						7	-	Π				Water service	
Register Type								5				Electronic register (5G)	
									0	0		No output capability (Local display only)	
									3	0		Factored pulse (pulse width 1ms), +Unfactored pulse (*1)	
									5	0		Factored pulse (pulse width 50ms), +Unfactored pulse (*1)	
									6	0		Factored pulse (pulse width 100ms), +Unfactored pulse (*1)	
Pulse Generato	r (*	3)							7	0		Factored pulse (pulse width 250ms), +Unfactored pulse (*1)	
									3	1		Factored pulse (pulse width 1ms), +Unfactored pulse (*1) +Analog output or Analog output only (*2)	
									5	1		Factored pulse (pulse width 50ms), +Unfactored pulse (*1) +Analog output	
									6	1		Factored pulse (pulse width 100ms), +Unfactored pulse (*1) +Analog output	
7 1						7	1		Factored pulse (pulse width 250ms), +Unfactored pulse (*1) +Analog output				
Temperature Ra	ange	e an	d Fla	ınge	rati	ing					В	Always "B"	

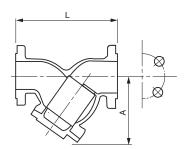
^{*1} Unfactored pulse width is fixed at 2ms.

☐ Strainers Dedicated for Water-Service FLOWPET-5G

General

Do not fail to directly couple a strainer upstream of the Flowpet-5G.

A strainer safeguards the Flowpet-5G against foreign particles and other suspended matter which could cause costly downtime.



Specifications

It	em	Description		
Operating Temp. I	Range (fluid temp.)	0 to 150°C		
Max. Operating P	ressure	1.18MPa		
Material	Body	FC250		
Material	Net	SUS304		
Finish		Orange (Munsell 2.5 YR 6/13)		

• Product Code, Outline Dimensions [Unit in mm], Net Mesh, Pressure Losses

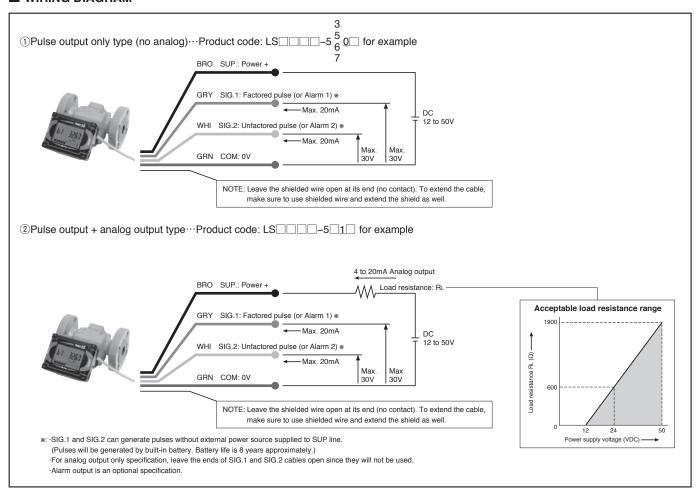
Product Code No.	Nominal size Flange Rating	L	А	Approx. Weight kg	Net Mesh	Max. Flowrate L/h	Pressure Loss (kPa) at Max. Flowrate	Applicable Flowpet-5G
SS5278A	20A JIS 10K RF	125	82	3.4	80	1200	2	LS5277-5 □□ B
SS5378A	25A JIS 10K RF	140	104	5.3	60	3600	6	LS5377-5 □□ B
SS5578A	40A JIS 10K RF	170	129	7.7	60	7200	6	LS5577-5 □□ B
SS5678A	50A JIS 10K RF	190	153	9.6	60	12000	6	LS5677-5 □□ B

^{*2} If using analog output only, "Factored pulse (1ms) + Unfactored pulse (2ms) + Analog output" will be the specification.

Wire analog output lines (2 lines of the power wire) and leave the ends of pulse output (SIG.1 and SIG.2) cables open (not connected).

^{*3} Alarm output specification is available as an option (See page 11).

■ WIRING DIAGRAM



■ ALARM OUTPUT SPECIFICATION (OPTIONAL)

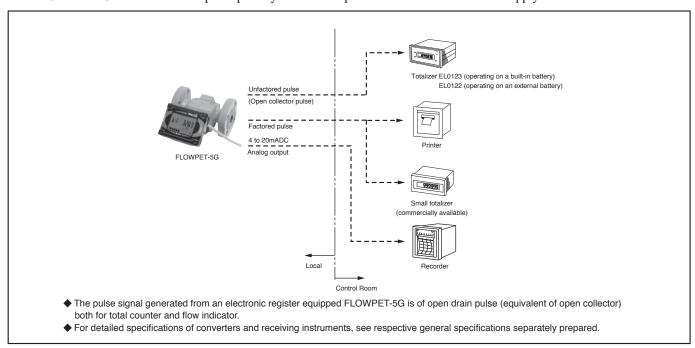
Alarm output setting is available as an option.

→The following 3 combinations are available for output assignment as factory setting.

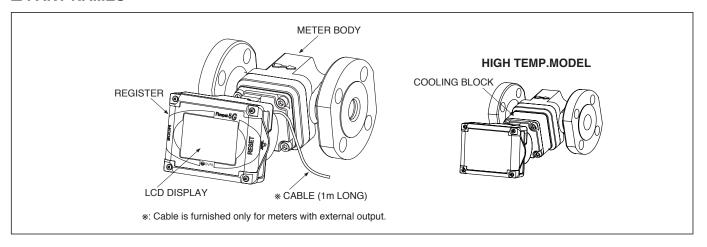
Output signal	Alarm output specification 1	Alarm output specification 2	Alarm output specification 3
SIG1.	Alarm output 1	Alarm output 1	Alarm output 1
SIG2.	Unfactored pulse	Factored pulse	Alarm output 2

■ REMOTE FLOW MEASUREMENT WITH FLOWPET-5G

The FLOWPET-5G with external output capability allows the operator to control water or oil supply from a remote location.



■ PART NAMES



OPERATING PRECAUTIONS

To derive maximum benefit and safety of operation from the FLOWPET-5G, we recommend that the following precautions be taken:

- 1. From the flow ranges and operating ranges of the flowmeter, strainer and other available data, select the right pump and valve location to ensure that the required flowrate, pressure and other factors be maintained and that excessive flow rates, pressure rises or other damaging conditions be prevented.
- 2. In cold regions, take due precautions against freezing. If thermal insulation on meter body is desired, see the instruction manual for the meter. The meter body and strainer are not serviceable at subzero temperatures.
- 3. Locate the flowmeter itself and signal cable sufficiently away from sources of large magnetic fields (e.g., pumps, electric motor-driven and solenoid valves). (For example, keep a solenoid valve 10 watts or so in power consumption at least 10 centimeters away.)
- 4. Acceptable fluids depend on the type of flowmeter. The FLOWPET-5G is primarily designed for boiler feed water and fuel oil. If you have any other application in mind, consult our nearest sales office or agent.
- 5. Not serviceable for certifying and authenticating legal transactions by the Measurement Law.
- 6. This register operates over a temperature range -10 to +60°C. In locations where the register is potentially exposed to elevated temperatures by direct sunshine, reflected heat, or other heat source, provide an appropriate sunshade.
- 7. For outdoor installation, provide a protection against dewdrops. Use within the specified temperature range.
- 8. Install in a location where the register assembly is free from direct exposure to rainwater, oils, chemicals, etc.
- 9. This meter has no subtract counter capability. If pulsation (fluctuation of flow rate due to the effect of pressure change) or reverse flow of the fluid flow occurs within the pipeline, the total flow reading may be inconsistent.

The specification as of July, 2019 is stated in this GS Sheet. Specifications and design are subject to change without notice.