

Inexpensive PD for Boiler Feed Water and Oil

FLOWPET-5G



■ 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

- 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: 90 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.)
- 4. 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	③ Instantaneous flo	I flow (8-digit) w rate, L/h (mode: b1) w rate, L/min (mode: b2) ow (zero start/zero resettable, mode: C) (7-digit) Selectable with MODE switch										
Function	2 LCD with 7-segn3 Flow indicator (14 Simulated output		round color: orange)	ted outputs (unfactored, factored, and analog)								
Register accuracy	Total flow: ±1 count	Total flow: ±1 count, Instantaneous flow rate: within ±1% of full scale										
Display orientation	165° range in 15° s	teps (From horizontal position: upw	ard 90°, downward 75°)									
Flow detection	Magnetic sensor de	etects alternating magnetic fields. R	esponse frequency 200Hz ma	ax.								
	Output type	Output type										
Pulse output	Capacity	Allowable current: 20mADC, Max	. voltage applied: 30V									
Pulse output	Pulse type	Factored		Unfactored								
	Pulse width	1ms, 50ms, 100ms, 250ms (*1)		2ms (fixed)								
	Output type											
Alarm output	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 flow rate"	can be set with any value for each output point)								
Analog output	4 to 20mADC (load	resistance: see P.11 "acceptable lo	ad resistance range")									
Cable		eathed, 4-conductor (individual elem models without pulse generator)	nents 0.25mm², φ6.3 O.D.) ca	ble furnished (standard)								
Transmission distance		rhen CVVS: 1.25 to 2.0mm² cable is output and pulse/alarm output, the		m max. (when CVVS: 1.25 to 2.0mm ² cable is used)								
	Battery pack or exte	ernal power source										
D	Battery pack	Lithium battery: 3.6VDC 5400mA	h Battery life: 8 years (varies	with operating conditions) Storage life: 10 years								
Power source (*2)	External power source	1. 12 to 50VDC+10%	Pulse output : Current capacity 10mA or more Analog output : Current capacity 30mA or more									
Ambient temperature range	-10 to +60°C (no co	ondensing)	•									
Material	Polycarbonate (blad	ck)										
Configuration	IP65 (Install under t	the eaves)										

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

OVAL Corporation

http://www.oval.co.jp/english

^{*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		Standard: Right → Left Option: Left → Right, Bottom → Top, Top → Bottom					
Finish		Orange: Munsell 2.5 YR 6/13					

 $[\]underline{\hat{\Lambda}}$ Install the meter such that the pipe always remains filled with oil. See instruction manual if changing flow direction is desired.

● Electronic Reg	gist	er : Units	of Count	and Pulse	Outpu	ut Unit	ts						:Option
	Size, mm					Outpu	ıt Pulse				Full Sca	les (st'd)	Max.
Model	Size,	Totalizer Resolution	Factored Output Pulse		F	actored F	Pulse Wid	lth	Unfactored	Output Pulse	Units of Instanta	neous Flowrate L	Flowrate
	Nom.		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	-	-	_		37.49Hz			
LS4976-5 □□ A B	20	9999999.9	100mL/P	2.2	0	0	0	0	5.928mL/P		1	0.01	800
_		9999999	1L/P	0.22	0	0	0	0					
		999999.99	10mL/P	55.6	0	_	-	_					
LS5076-5 □□ A B	20	9999999.9	100mL/P	5.56	0	0	0	_	9.912mL/P	56.0Hz	1	0.01	2000
_		9999999	1L/P	0.56	0	0	0	0					
		999999.99	10mL/P	105	0	-	-	_				0.01	
LS5276-5 □□ A	25	9999999.9	100mL/P	10.5	0	0	_	_	9.639mL/P	109.5Hz	1		3800
		9999999	1L/P	1.05	0	0	0	0					
		9999999.9	100mL/P	17.7	0	-	-	_		101.7Hz			6400
LS5376-5 □□ A	40	9999999	1L/P	1.77	0	0	0	0	17.470mL/P		1	0.01	
		99999999	10L/P	0.17	0	0	0	0					
		99999999	100mL/P	38.8	0	-	-	_					
LS5576-5 □□ A	40	99999999	1L/P	3.88	0	0	0	_	34.526mL/P	112.6Hz	1	0.01	14000
		9999999	10L/P	0.38	0	0	0	0					
		9999999.9	100mL/P	66.6	0	_	_	_			1		
LS5676-5 □□ A	50	99999999	1L/P	6.66	0	0	0	_	74.483mL/P	89.5Hz		0.01	24000
		99999999	10L/P	0.66	0	0	0	0					

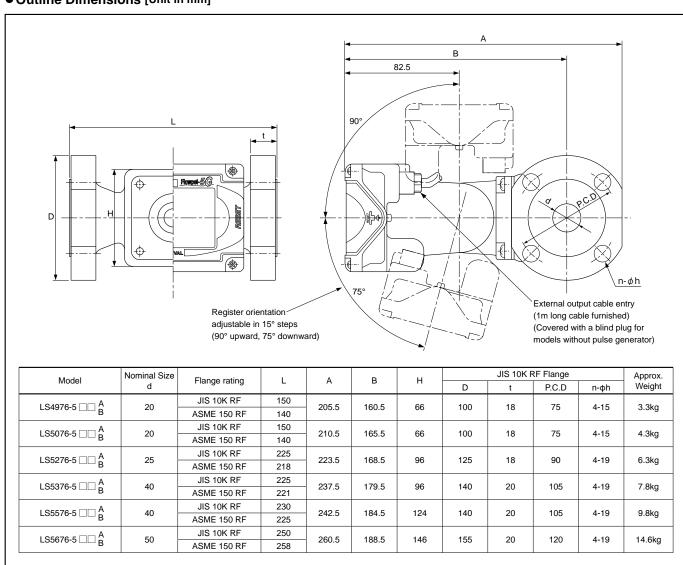
- 1. Output frequency shows the value at max. flow rate.
 2. Shaded cells indicate optional setting (Unshaded sells: standard factory setting).
- 3. Factored pulse width can be adjusted to desired value in 1ms increments with button operation
 4. Full scale values of "Flow indicator display" and "Analog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

■ EN STANDARDS CONFORMITY

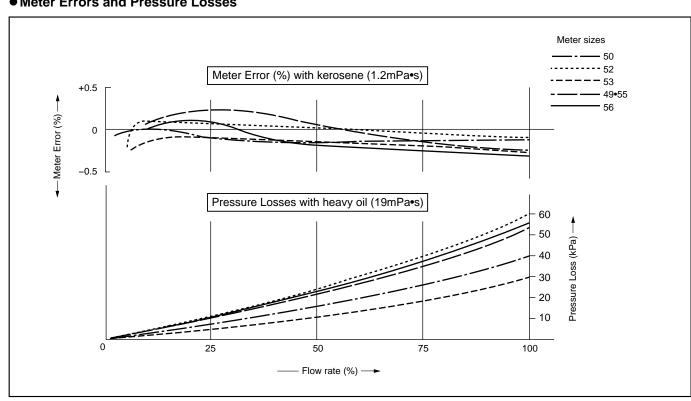
	<u> </u>
Applicable EU Directive	EMC Directive: 2004/108/EC RoHS Directive: 2011/65/EU
Applicable EN standards, etc.	EMC Directive Emission: EN55011:2009/A1:2010, Group1, Class B Immunity: EN61000-6-2:2005

FLOWPET-5G for Oil Service

Outline Dimensions [Unit in mm]



Meter Errors and Pressure Losses



GBB324E-1 FLOWPET-5G

FLOWPET-5G for Oil Service

Product Code Explanation

					Сс	de	No.										
Item	1	2	3	4	(5)	6	<u> </u>	(7	0	8	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	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	5				Electronic register (5G)				
									L	0	0		Non pulse generator (Local display only)				
									L	3	0		Factored pulse (pulse width 1ms), +Unfactored pulse (*1)				
									L	5	0		Factored pulse (pulse width 50ms), +Unfactored pulse (*1)				
									L	6	0		Factored pulse (pulse width 100ms), +Unfactored pulse (*1)				
Pulse Generato	r (*	3)							L	7	0		Factored pulse (pulse width 250ms), +Unfactored pulse (*1)				
									L	3	1		Factored pulse (pulse width 1ms), +Unfactored pulse (*1) +Analog output or Analog output only (*2)				
									L	5	1		Factored pulse (pulse width 50ms), +Unfactored pulse (*1) +Analog output				
	6 1 7 1			1		Factored pulse (pulse width 100ms), +Unfactored pulse (*1) +Analog output											
				1		Factored pulse (pulse width 250ms), +Unfactored pulse (*1) +Analog output											
Temperature Ra	ana	2 2 2	d Fla	nac	rati	ina						Α	Standard (0 to 120°C), JIS 10K RF				
romperature No	ang	all	чна	rige	, rall	iiy						В	Standard (0 to 120°C), ASME 150 RF				

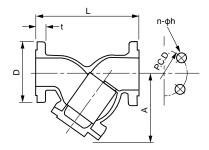
^{*1} Unfactored pulse width is fixed at 2ms.

☐ 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

It	em	Description					
Operating Temp.	Range (fluid temp.)	0 to 150°C					
Max. Operating P	ressure	1.18MPa					
Manarial	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		Elan na Datin a				Fla	nge		Approx.	Not Most	,	a) at Max. Flowrate	Applicable Flowpet-5G	
Code No.	Size	Flange Rating	L	A	D	t	P.C.D	n-φh	Weight kg	Net Mesh	Kerosene 1.2mPa•s	Heavy oil 19mPa•s		
SS5278A	20A	JIS 10K RF	125	82	100	18	75	4-15	3.4	80	6 (1600L/h)	50 (2000L/h)	LS4976-5 □□ A B	
												(======,	LS5076-5 □□ A B	
SS5378A	25A	JIS 10K RF	140	104	125	18	90	4-19	5.3	60	7 (3000L/h)	28 (3800L/h)	LS5276-5 □□ A B	
SS5578A	40A	JIS 10K RF	170	129	140	20	105	4-19	7.7	60	23 (11000L/h)	26 (14000L/h)	LS5376-5 DAB	
													LS5576-5 □□ A B	
SS5678A	50A	JIS 10K RF	190	153	155	20	120	4-19	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

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 to 800	14 to 800	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)						
Material	Rotors	Special resin						
Flow directions *		Standard: Right → Left Option: Left → Right, Bottom → Top, Top → Bottom						
Finish		Silver						

 $\underline{ \ensuremath{ \, } \ensuremath{ \, } }$ 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

	E					Outpu	ıt Pulse				Full Sca	les (st'd)	
Model	Size, ı	Totalizer Resolution	Factored	F	actored F	Pulse Wid	lth	Unfactored	Output Pulse	Units of Instanta	neous Flowrate L	Max. Flowrate	
	Nom. §		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 □□ C	20	9999999.9	100mL/P	2.2	0	0	0	0	5.928mL/P	37.49Hz	1	0.01	800
		99999999	1L/P	0.22	0	0	0	0					
		999999.99	10mL/P	55.5	0	_	_			56.0Hz	1	0.01	
LS5076-5 □□ C	20	9999999.9	100mL/P	5.55	0	0	0	_	9.912mL/P				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
_		99999999	1L/P	1.05	0	0	0	0					
		9999999.9	100mL/P	17.7	0	-	-	_					
LS5376-5 □□ C D	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					

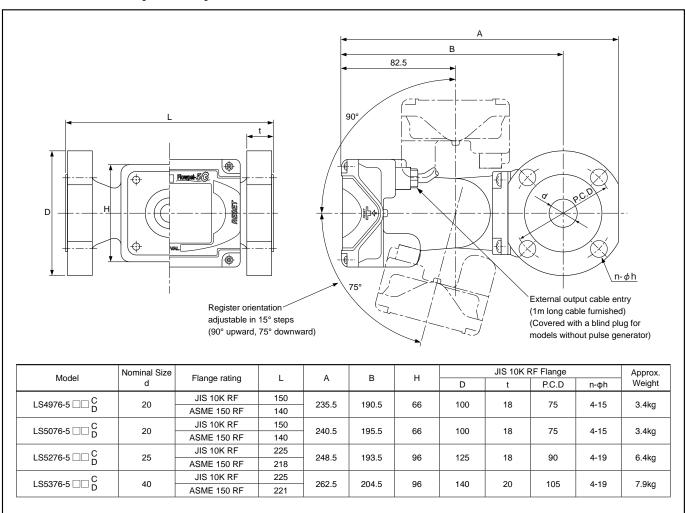
- 1. Output frequency shows the value at max. flow rate.
- Shaded cells indicate optional setting (Unshaded cells: standard factory setting).
 Factored pulse width can be adjusted to desired value in 1ms increments with button operation.
- 4. Full scale values of "Flow indicator display" and "Analog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

■ EN STANDARDS CONFORMITY

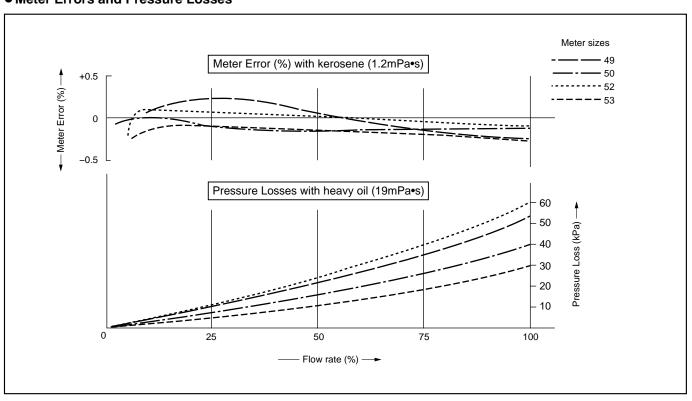
Applicable EU Directive	EMC Directive: 2004/108/EC RoHS Directive: 2011/65/EU
Applicable EN standards, etc.	EMC Directive Emission: EN55011:2009/A1:2010, Group1, Class B Immunity: EN61000-6-2:2005

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

					Co	ode	No.									
Item	1	2	3	4	(5)	6	-	(7	0	8)	9	10	Description			
Model	L	S						Τ					Specialized OVAL flowmeter (Standard)			
	4 9						20A JIS 10K RF, ASME 150 RF (Option)									
Meter Size	5 0							20A JIS 10K RF, ASME 150 RF (Option)								
Meter Size			5	2									25A JIS 10K RF, ASME 150 RF (Option)			
			5	3									40A JIS 10K RF, ASME 150 RF (Option)			
Model Name					7								Flowpet			
Application						6	-						Oil service			
Register Type								5	5				Electronic register (5G)			
									L	0	0		Non pulse generator (Local display only)			
									;	3	0		Factored pulse (pulse width 1ms), +Unfactored pulse (*1)			
									Ŀ	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)			
									Ŀ	5	1		Factored pulse (pulse width 50ms), +Unfactored pulse (*1) +Analog output			
6 1				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	na	2 20	4 Ela	nac	a rat	ina					٦	С	High temperature model (0 to 150°C), JIS 10K RF			
remperature Ka	arigi	- an	u ric	arige	z iai	ıı ıy						D	High temperature model (0 to 150°C), ASME 150 RF			

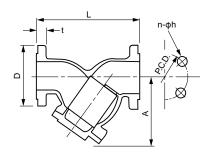
^{*1} Unfactored pulse width is fixed at 2ms.

☐ 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		А		Fla	nge		Approx. Weight)IUX. '		a) at Max. Flowrate	Applicable	
Code No.	Size	Flange Rating	L	A	D	t	P.C.D	n-φh	kg	Net Mesn	Kerosene 1.2mPa•s	Heavy oil 19mPa•s	Flowpet-5G	
SS5278A	20A	JIS 10K RF	125	82	100	18	75	4-15	3.4	80	6 (1600L/b)	50 (2000L/h)	LS4976-5 □□ C D	
333276A	20A	JIS TOK KE	123	02	100	10	75	4-13	3.4	80	6 (1600L/h)	30 (20001/11)	LS5076-5 □□ C D	
SS5378A	25A	JIS 10K RF	140	104	125	18	90	4-19	5.3	60	7 (3000L/h)	28 (3800L/h)	LS5276-5 □□ C D	
SS5578A	40A	JIS 10K RF	170	129	140	20	105	4-19	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).

GBB324E-1 FLOWPET-5G

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	1.18MPa (with steady flow)							
Accuracy		±1% of RD						
	Body	Stainless steel casting						
Material	Rotors	Special resin						
	Register Housing	Polycarbonate						
Flow directions	*	Standard: Right → Left Option: Left → Right, Bottom → Top, Top → Bottom						
Finish		Not painted						

 $\ensuremath{\underline{\bigwedge}}$ 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

:Option

	E					Outpu	ıt Pulse				Full Sca	les (st'd)	Max.
Model	Size,	Totalizer	Factored	Output Pulse	F	actored F	Pulse Wid	lth	Unfactored	Output Pulse	Units of Instanta	Flowrate	
	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	_	_	_					7200
LS5577-5 □□ B	40	99999999	1L/P	2.00	0	0	0	0	35.496	56.3	1	0.01	
		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					

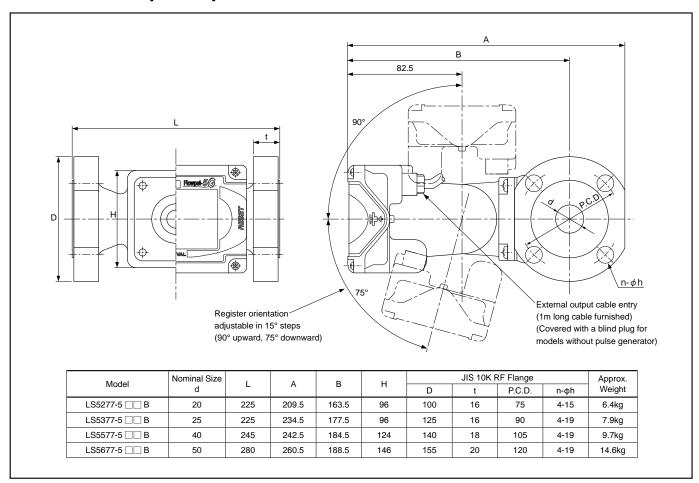
- Output frequency shows the value at max. flow rate.
 Shaded cells indicate optional setting (Unshaded cells: standard factory setting).
- 3. Factored pulse width can be adjusted to desired value in 1ms increments with button operation
- 4. Full scale values of "Flow indicator display" and "Analog output"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

■ EN STANDARDS CONFORMITY

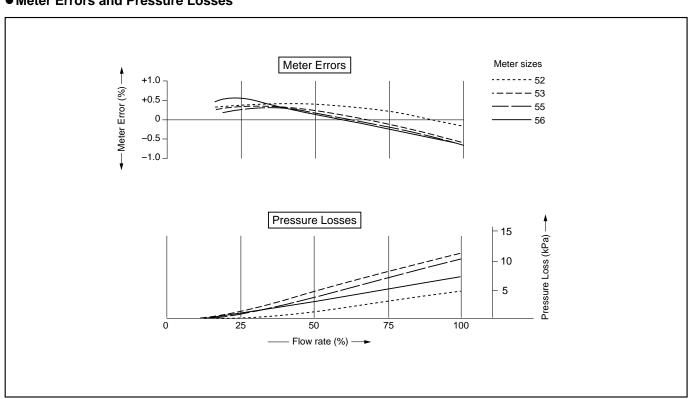
Applicable EU Directive	EMC Directive: 2004/108/EC RoHS Directive: 2011/65/EU
Applicable EN standards, etc.	EMC Directive Emission: EN55011:2009/A1:2010, Group1, Class B Immunity: EN61000-6-2:2005

FLOWPET-5G for Water Service

● Outline Dimensions [Unit in mm]



Meter Errors and Pressure Losses



FLOWPET-5G for Water Service

Product Code Explanation

	_			·											
Item					Со	de	No.					Description			
item	1	2	3	4	(5)	6	-	7	(8	(9	(10)	Description			
Model	L	S										Specialized OVAL flowmeter (Standard)			
			5	2								0A 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	(Non pulse generator (Local display only)			
									3	(Factored pulse (pulse width 1ms), +Unfactored pulse (*1)			
									5	(Factored pulse (pulse width 50ms), +Unfactored pulse (*1)			
									6	(Factored pulse (pulse width 100ms), +Unfactored pulse (*1)			
Pulse Generato	r (*	3)							7	(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			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 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"			

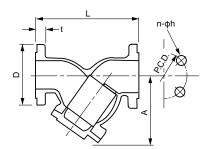
^{*1} Unfactored pulse width is fixed at 2ms.

☐ 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

	Item	Description			
Operating Tem	p. Range (fluid temp.)	0 to 150°C			
Max. Operating	g Pressure	1.18MPa			
Matarial	Body	FC250			
Material	Net	SUS304			
Finish		Orange (Munsell 2.5 YR 6/13)			

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

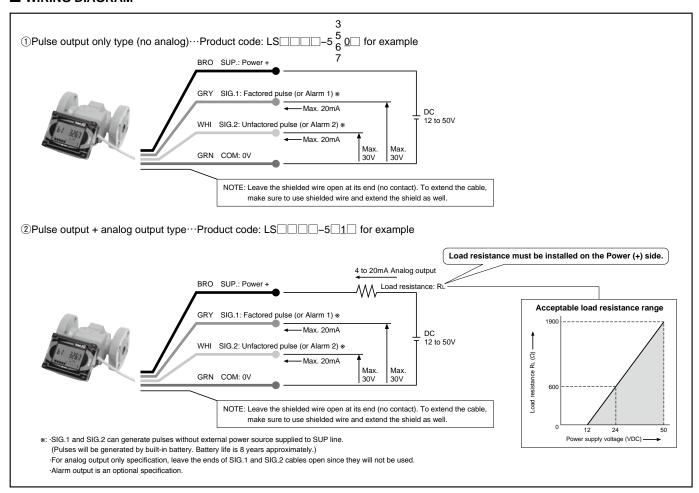
Product	roduct Nominal size				Fla	nge		Approx. Weight	Net Mesh	Max. Flowrate	Pressure Loss (kPa) at	Applicable	
Code No.	Flange Rating	L	A	D	t	P.C.D	n-φh	kg	Net Mesn	L/h	Max. Flowrate	Flowpet-5G	
SS5278A	20A JIS 10K RF	125	82	100	18	75	4-15	3.4	80	1200	2	LS5277-5 □□ B	
SS5378A	25A JIS 10K RF	140	104	125	18	90	4-19	5.3	60	3600	6	LS5377-5 □□ B	
SS5578A	40A JIS 10K RF	170	129	140	20	105	4-19	7.7	60	7200	6	LS5577-5 □□ B	
SS5678A	50A JIS 10K RF	190	153	155	20	120	4-19	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)

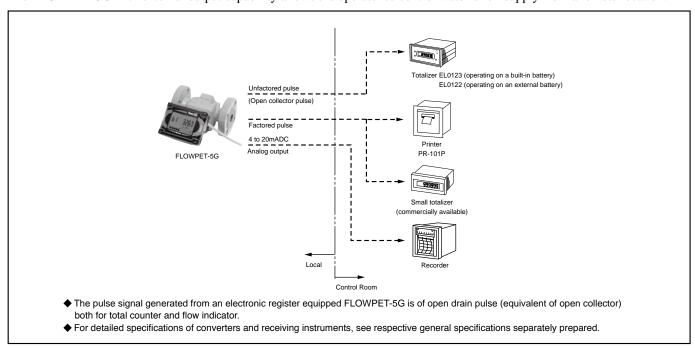
Alarm output setting is available as an option.

→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.



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 November, 2015 is stated in this GS Sheet. Specifications and design are subject to change without notice.

Sales Representative:

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