CAT. No. CBB318E-1

Liquid



For Oil Feed/Water Feed



Improved Visibility 
 Easy Operation 
 User-Intuitive

• Extensive Output Capability • Replaceable Battery



# **TO THE 5TH GENERATION**

## **Dirt-resistant Display & Safer Switch Placement** By placing the switches on the back of the display:

- · Display size is maximized
- Prevent erroneous operation from accidentally touching the switches
- Switch operation can be done without touching the front display: the display will be kept clean
- Highly durable against oil with the back material made of glass reinforced resin

## User-Friendly Front Cover Structure

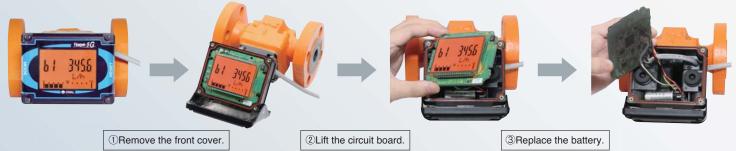
## The front cover latches on the indentation on the body

- · Unlike hinges, the front cover can be fixed at desired position (top or bottom)
- · Prevent losing or dropping the cover during battery replacement



## Easy Battery Replacement

Battery replacement made easy without the need to remove the meter from the pipe.



#### Battery Icon

Normally off

 Displays when the battery is low to suggest battery replacement

## Alarm Icons (up to 2)

Normally off

- Displays when instant flow rate meets alarm conditions
- <u>(Up to 2 a</u>larm conditions can be configured)

#### Information Icon

Flow Rate Display

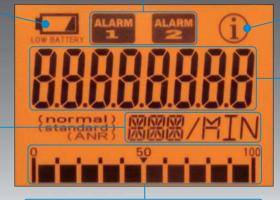
- Displays when the current mode is different from the normal measurement mode
- Easy to confirm the current operating mode

• Easy-to-read large display (8-digit) of one of the following values (Displayed value can be swithed by

Accumulated total
 Instantaneous flow rate (per hour)
 Instantaneous flow rate (per minut
 Resettable total

#### Flow Rate Unit Display

- Easy-to-read large display (16-sec
  Capable of displaying various units
- (L, kL, m<sup>3</sup>, ft<sup>3</sup>, g, kg, t, lb, etc.)
- Unit of time added while disp
- flow rate ([/min], [/h]



#### Flow Indicator (10-segment)

 $\cdot$  Bar length changes based on instantaneous flow rate (%)

 $\boldsymbol{\cdot}$  Allows user to intuitively check flow rate from a distance

## Adjustable Register Angle

## Register angle is adjustable over a 165° range

- Display angle can be adjusted to easy-to-read position regardless of installation location
- Easy to re-adjust the display angle even after changing installation orientation or location



## Extensive Output Capability and Reinforced Protection Improved electronic circuit while maintaining the reasonable price

- 4 kinds of output specifications available: pulse output, analog output, alarm output, and analog+pulse/alarm output
- "Overcurrent prevention circuit" added to power/output circuit protects the meter from current overload due to erroneous wiring



## Complete Compatibility with the Previous Model

Retrofitting the new electronics unit on an existing FLOWPET is easy without the need to remove the meter from the pipe.



#### ■ GENERAL SPECIFICATIONS

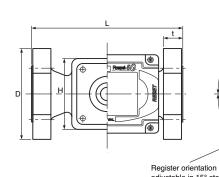
Item	Description						
LCD display	7-segment, 8-digit with 14mm characters, unit display, low battery alarm, and flow indicator (10-segment)						
Power source	Lithium battery or external power source • Lithium battery: 3.6V dedicated battery pack, Battery life: 8 years (varies with operating conditions), Storage life: 10 years • External power source: 12 to 50VDC±10% (Pulse output: Current capacity 10mA or more, Analog output: Current capacity 30mA or more						
Display item	Total flow, instantaneous flow rate ([/h] or [/min]), and resettable total flow						
Output signal (for model with a pulse generator)	Open collector, Allowable current: 20mA, Max. vol	Analog output					
	Factored pulse	Unfactored pulse					
	Pulse width: 1ms, 50ms, 100ms, 250ms	Pulse width: 2ms (fixed)	4 to 20mA				
Temperature range	Fluid temperature: 0 to +120°C , Ambient temperature: -10 to +60°C						
Max. operating pressure	1.18MPa (Flange rating: JIS 10K RF)						
Accuracy	±0.5% of RD						

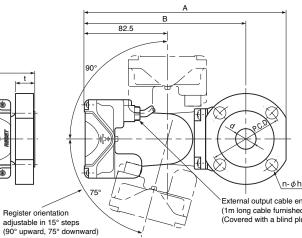
## FLOW RANGE

#### • Flow Range for Oil Service

Model	Nominal		Pressure Loss (kPa) at Max. Flow Rate			
	Size 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)	Kerosene 1.2mPa•s	Heavy oil 19mPa•s
LS4976-5	20	10 to 800	7 to 800	5 to 800	32	47
LS5076-5	20	150 to 1600	80 to 2000	50 to 2000	14	40
LS5276-5	25	300 to 3000	150 to 3800	80 to 3800	13	56
LS5376-5	40	600 to 5000	300 to 6400	150 to 6400	13	30
LS5576-5	40	1200 to 11000	600 to 14000	400 to 14000	25	54
LS5676-5	50	2000 to 20000	1400 to 24000	900 to 24000	27	55

#### ■ OUTLINE DIMENSIONS





External output cable entry (1m long cable furnished) (Covered with a blind plug for models without pulse generator)

Model	Nominal Size d	Flange Rating		•	В	н	JIS 10K RF Flange				Approx.
			L	А			D	t	P.C.D	n-φh	Weight (kg)
LS4976-5	20	JIS 10K RF	150	205.5	160.5	66	100	18	75	4-15	3.3
		ASME 150K RF	140								
LS5076-5	20	JIS 10K RF	150	210.5	165.5	66	100	18	75	4-15	4.3
		ASME 150K RF	140								
LS5276-5	25	JIS 10K RF	225	223.5	168.5	96	125	18	90	4-19	6.3
		ASME 150K RF	218								
LS5376-5	40	JIS 10K RF	225	237.5	179.5	96	140	20	105	4-19	7.8
		ASME 150K RF	221								
LS5576-5	40	JIS 10K RF	230	242.5	184.5	124	140	20	105	4-19	9.8
		ASME 150K RF	225								
LS5676-5	50	JIS 10K RF	250	260.5	188.5	146	155	20	120	4-19	14.6
		ASME 150K RF	258								

The specification as of November, 2015 is stated in this catalog. Specifications and design are subject to change without notice.



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