

OF-W Microstream Sensor for Liquid

The microstream Sensor was developed to meet the fluid engineering demands for a precise, easy-to-use flow-rate control and monitoring system that can be applied to a wide range of fields.



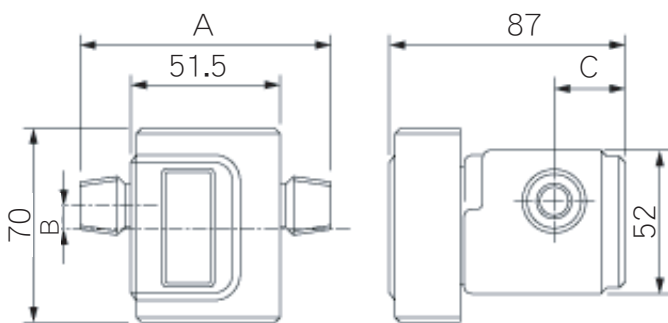
Feature

- Built-in lithium batteries (No external power supply is required)
- Indications of both instantaneous flow-rate and integrating flow volume by only 1 flowmeter
- Revolving display unit (It can be fixed to a easy-to-read position)
- Simplified structure with the oval gears type measuring principle
- Measurement of various liquids
- Reset function for indications of Integrating Flow Volume (Total) and Integrating Flow Volume (Trip)
- Value holding function for Instantaneous Flow-Rate indication
- Pulse output function (Option)

Applications

- To control kerosene burner combustion for efficient fuel control
- To indicate the fuel consumption rate and 'remaining fuel' of internal combustion systems
- To control the flow for chemical feeder systems
- To measure the flow of liquid cosmetic products, etc.

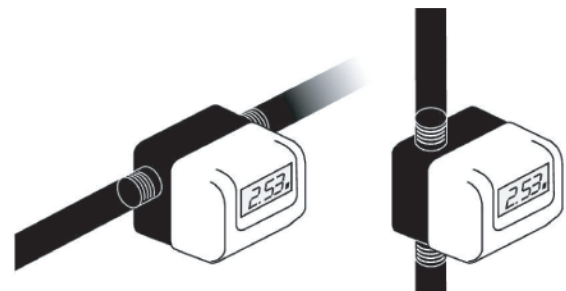
Dimensions



Model	OF05	OF10
A	80	90
B	8	8.5
C	25	24

Unit : mm

Installation



The standard installation positions are that the display is being perpendicular.

* The display is able to be revolved.

Specifications

Model OF-WN (Local display type) / Model OF-WP (With pulse output)

Instantaneous flow-rateIntegrating flow volume flowmeter OF-WN Type		OF05ZAWN	OF10ZAWN	OF05ZZWN	OF10ZZWN	
Instantaneous flow-rateIntegrating flow volume flowmeter (with pulse output) OF-WP Type		OF05ZAWP	OF10ZAWP	OF05ZZWP	OF10ZZWP	
Flow-rate range (m ³ /h)	Fluid viscosity 0.3 – 0.8mPa·S	0.085 – 0.85L/min	0.7 – 5L/min	0.085 – 0.85L/min	0.7 – 5L/min	
	0.8 – 2.0mPa·S	0.05 – 0.85L/min	0.35 – 5L/min	0.05 – 0.85L/min	0.35 – 5L/min	
	2.0 – 5.0mPa·S	0.017 – 0.85L/min	0.17 – 5L/min	0.017 – 0.85L/min	0.17 – 5L/min	
Accuracy (*1)	5.0 – 200mPa·S	0.0085 – 0.85L/min	0.085 – 5L/min	0.0085 – 0.85L/min	0.085 – 5L/min	
	Flow-rate indication	±2%RS±0.007L/min	±2% RS±0.04L/min	±2%RS±0.007L/min	±2% RS±0.04L/min	
	Volume indication	±2%RS		±2%RS		
Measurable fluids	Various liquids	Please select with reference to the following major materials of the liquid-touching materials		Please select with reference to the following major materials of the liquid-touching materials		
	Major fluids	Water, hot water, kerosene, heavy oil		Water, hot water, kerosene, heavy oil		
Max. working pressure		0.5MPa (at the time of fluid temperature of 20°C)		0.5MPa (at the time of fluid temperature of 20°C)		
Pressure drop		Not more than 4kPa	Not more than 10kPa	Not more than 4kPa	Not more than 10kPa	
Fluid temperature range		0 to +60°C		0 to +60°C		
Output signal (for OF-WP)		Open drain output (Equivalent to open collector) Pulse width: Not less than 5ms Max. rating voltage: 30 VDC Output capacity: "ON resistance" Not more than 150Ω, "OFFresistance" Not less than 100kΩ (Remained voltage not more than 1.5V in case of input current not more than 10mA)		Open drain output (Equivalent to open collector) Pulse width: Not less than 5ms Max. rating voltage: 30 VDC Output capacity: "ON resistance" Not more than 150Ω, "OFFresistance" Not less than 100kΩ (Remained voltage not more than 1.5V in case of input current not more than 10mA)		
Pulse unit (for OF-WP)		10mL/p		10mL/p		
Ambient temperature range		0 to +60°C 35 to 85%RH (Dew condensation must be avoided)		0 to +60°C 35 to 85%RH (Dew condensation must be avoided)		
LCD	Flow-rate	Smallest Scale	0.007L/min	0.04L/min	0.007L/min	0.04L/min
		Display digits	0.000L/min	00.00L/min	0.000L/min	00.00L/min
	Volume	Smallest Scale	0.001L	0.01L	0.001L	0.01L
		Display digits	00000.000L	000000.00L	00000.000L	000000.00L
Power supply		Built-in lithium battery (Battery Not replaceable.)		Built-in lithium battery (Battery Not replaceable.)		
Structure		IP64 equivalent, Indoor installation		IP64 equivalent, Indoor installation		
Connection		R1/4	R1/2	R1/4	R1/2	
Meter Weight		Approx. 240g	Approx. 260g	Approx. 240g	Approx. 260g	
Major materials of the liquid touching parts	Casing	PPS		PPS		
	Rotor	PPS		PPS		
	O-ring	NBR		FKM		
	Pivot	SUS304		SiC		

*1: With the standard installation position.