

SENSOR	MANIFOLD	VALVE
OZONE	JOINT	CLAMP
FILTER	OTHER	DATA



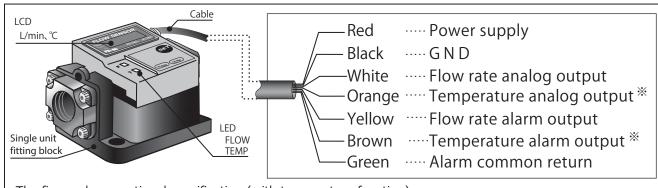
Flowmeter FS Series FS-SC

Features

- Simultaneous output of analog and alarm.
- Measurement value LCD digital display.
- It can display if the set value is reached or not with an LED lamp, and can output alerts.
- Compact collective piping "manifold" can be mounted.
- Display the flow rate and temperature(option) with high accuracy.



Electricalwiring

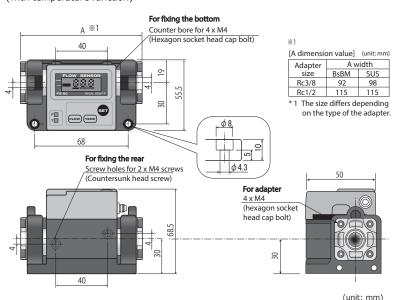


The figure shows optional specification (with temperature function)

○ AWM20276, 7 cores/0.2mm² having 500mm length of unprocessed terminalsusing by cables. **X**Option: With temperature function

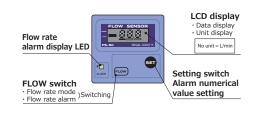
Dimensions

The figure shows optional specification (with temperature function)

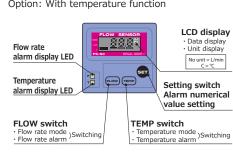


Operation display section

No option



Option: With temperature function





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Specifications

		_		
Model		FS-3SC	FS-10SC	FS-30SC
Rated flow rate range		0.5 - 3.0 L /min	1.5 - 10.0 L /min	5.0 - 30.0 L/min
Applicable fluid		Industrial water, Water		
Detecting method		Impeller type		
Fluid temperature		0~60°C		
Ambient temperature		0~50°C		
Accuracy*2		±2.5% F.S.		
Max. operating pressure		1.0 MPa		
Power supply voltage*3		12 VDC±5% or 24 VDC±10%		
Current consumption		At voltage output: Max. 30 mA		
		At current output: Max. 50 mA *4 Max. 70 mA		
Cable		AWM 20276 (7 cores 0.2 mm² length 500 mm)		
Flow rate display and temperature display4		Numerical value LCD display 0.1 step		
Flow rate analog output*5	Voltage output	0 - 10 V	0 - 10 V (load 3 kΩ or more) *4 4 - 20 mA (load 300 Ω or less) *at 0 - 100°C	
Temperature analog output select voltage and current when placing an order)		4 - 20 m/		
*6	Maximum load current	Below 100 mA		
Flow rate alarm output	Maximum applied voltage	Below 40 V		
Temperature alarm output	Output mode	MOSFET		
	Alarm display	Lights up in one of 2 colored LED (red or green)		
Power down display		Power down LCD blinks at 75% of power supply voltage		
Certification, standard, etc.		RoHS Directive (SUS adapter specification only)		
Material of liquid contacting part		POM-PA-SUS		
Material of connecting part		SUS or BsBM (Ni-plated)		
Sealing O-ring		Fluorine rubber		
Orifice diameter		ø5	ø7	ø10
Pipe diameter		Rc3/8 or Rc1/2		
Weight		Approx. 380 g		
Mounting posture		Free		
Direction of flow		Both directions		
Protective structure		Reverse connection protection (available only for 24 VDC specification)		

* 2 There are errors of maximum ±0.25 L/min ±0.075 L/min

±2.5°C

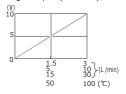
10 L/min respectively since F.S. (full scale) is 3 L/min

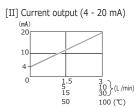
100°C

- 3 For the power supply voltage, either 12 VDC or 24 VDC may be selected when placing an order.
- * 4 Option: With temperature function
- * 5 For the analog output, either voltage output or current output may be selected when placing an order. * 6 Alarm setting value at factory shipping is set to 3SC = 2.0 L/min, 10SC = 6.0 L/min, 30SC = 20.0 L/min.

Output Signals



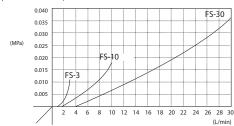




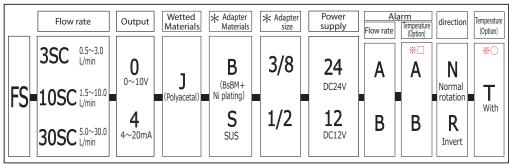
Flow Rate Characteristics

[Pressure loss diagram]

The figure below shows pressure difference between the primary and secondary pressures with source pressure of 0.29 Mpa.



Order form



- O ring is fluoro rubber.
- · When manifold mounting or single unit fitting block is unnecessary, selection of * is unnecessary since it will be ordered only with flowmeter.
- · When you wish for temperature measurement, please be sure to mention $\times \square$, $\times \bigcirc$.

Definition of alarm output and display LED

Measured value Alarm	set value	Lower than set value
A (OFF)		Red lamp is ON OFF
B (ON)		Green lamp is ON ON

In the alarm output, COM becomes common return flow of flow rate and temperature, and GND becomes floating state.

Photo MOSFET ON indicates conductive, and OFF indicates non-conductive.

The alarms for the flow rate and the temperature can be set independently.

[Entry example]

Output: 0~10 V

Direction: Normal rotation



Output: 0~10 V Direction: Invert Alarm: Temperature(Option)



-10SC-0-J-B-3/8-24-A-N

FS-10SC-0-J-B-3/8-24-A-B



(When installing manifold or using a single mounting block already used)

Normal rotation

Output: 0~10 V Direction: Normal rotation

FS-10SC-0-J-24-A-N

Output: 0~10 V Direction: Invert

FS-10SC-0-J-24-A-R

Note: O ring (P - 16) is not included. Please order separately.



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