

Impeller Flow Meter FS-SC Series



Over 100,000 units supplied for use as device coolant-water monitors to leading manufacturers of semiconductor / liquid crystal product devices worldwide.

- Alarm output, Analog output
- For measuring the fluid flow rate and temperature
- Digital display

	FS-3SC	FS-10SC	FS-30SC
Rated flow rate range	0.5 - 3.0 L/min.	1.5 - 10 L/min.	5.0 - 30.0 L/min.
Accuracy	±2.5%F.S.		
Fluid type	Industrial water, water		
Maximum allowable	1.0 MPa		
Fluid temperature	0 - 60°C (No freezing or condensation)		
Ambient temperature	0 - 50°C (No freezing or condensation)		
Power-supply voltage	DC 12 V ± 5% or DC 24 V ± 10%		
Current consumption	Max. 70 mA (at the time of current output)		
Cable	AWM20276 7 core / 0.2 (mm ²) / length 500 mm		
Flow rate display	0.1 step LCD display		
Temperature display	0.1 step LCD display		
Flow rate analog	DC0 - 10 V (Voltage output) 4 - 20 mA (Current output)		
Temperature analog output	DC0 - 10 V (Voltage output) 4 - 20 mA (Current output)		
Flow rate alarm output	Maximum load current: Less than DC100 mA Maximum applying voltage: Less than DC40 V		
Temperature alarm output	Maximum load current: Less than DC100 mA Maximum applying voltage: Less than		
Alarm display	One 2-color LED of each for flow rate and temperature		
Power-down display	One for power supply x 75% Blinking		
Certification and standard	RoHS Directives (SUS adapter specification only)		
O-ring seal material	Fluororubber		
Orifice diameter	φ5	φ7	φ10
Material of Wetted	Polyacetal, Polyamide, SUS		
Material of Adapter	SUS or BsBM (Ni plating)		
Pipe size	Rc 3/8 or Rc 1/2		
Accuracy	±2.5% (F.S.)		
Flow direction	Both direction		
Mounting direction	Free		
Mass	Approx. 380 g		
Protective structure	Protection for reverse connection of power supply (for DC24 V specification)		
External dimensions	55.5 x 92 (*98, 115) x 68.5		

Definition of alarm output and display LED

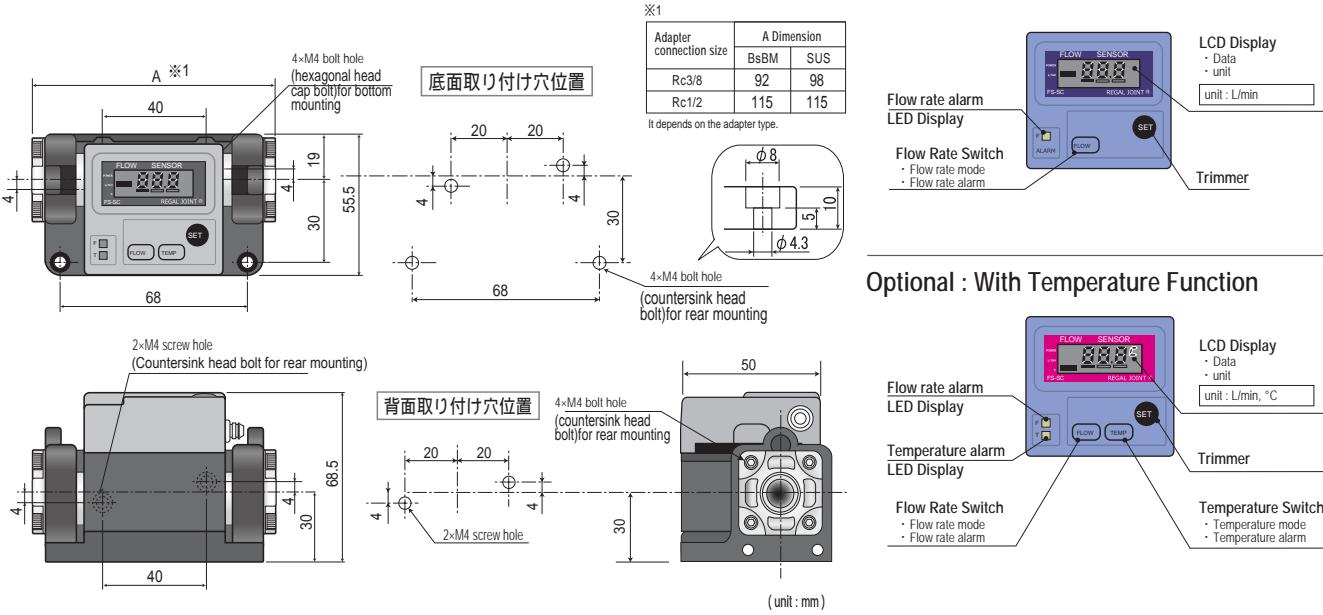
Alarm	A (OFF)	B (ON)
Measured value	Lit in Green	Lit in Red
Above the set value	ON	OFF
Below the set value	OFF	ON

Conductive when the MOS-FET is ON (conduction), non-conductive when it is OFF (non-conduction).

For the alarm, the flow rate and the temperature can be specified independently.

Definition of alarm output and display LED

Dimensions



Order Informations

Flow range Output Body Materials Adapter Materials Diameter Power supply Alarm Direction Temperature (optional)

FS- - - - - - - - - -

	Flow rate	Output	Body material	Adapter material	Diameter	Power source	Alarm		Direction	Temperature (optional)
							Flow rate	Temp. (optional)		
FS	3SC 0.5 - 3.0 L/min.	0 0 - 10 V	J Standard (Polyacetal)	B Standard (BsBM + Ni Plating)	3/8 Standard	24 DC24 V ± 10%	A	A	N Normal rotation	T Available
	10SC 1.5 - 10.0 L/min.	4 4 - 20 mA	B Supports 150°C (SUS304, 316)	S SUS	1/2 *	12 DC12 V ± 5%	B	B	R Reverse rotation	
	30SC 5.0 - 30.0 L/min.		T Fluororesin		1/4 150°C-supported body only					

*The O-ring is limited to Fluororubber.

*The alarm output temperature (optional) cannot be specified when the output 4 - 20 mA, body materials B, T, or power source DC12 V are selected.