

Turbine flow meter **FS-AR**



- Relay output
- Analog output or Pulse output (Select when ordering)
- LCD display
- 3-color LED

*Descriptions are based on Japanese Industrial Standards (JIS)

Specifications			
Model	FS-3AR	FS-10AR	FS-30AR
Flow range	0.5-3 L/min	1.5-10 L/min	5-30 L/min
Fluid	Industrial water, water		
Maximum working pressure	0.97 MPa		
Flow temperature	0-60C° (No freezing , No dewing)		
Ambient temperature	0-40C° (No freezing , No dewing)		
Power supply	DC 12 V ±5% or DC 24 V ±10%		
Current consumption	Max. 50 mA (DC1-5V,4-20mA:Max.70mA)		
Cable	AWM20276, 9 core / 0.2 mm? / 500 mm		
	red	Power supply	
	black	Ground	
	white	Relay output commonly used	
	green	Relay output (a)	
	yellow	Relay output (b)	
	brown	Analog voltage output	
	orange	Analog current output	
	Blue	Pulse output	
	Gray	Spare	
Relay output	Max.load current : Less than DC2A		
	Max.applied voltage : Less than DC30V		
	Output mode : a or b contact output		
Analog output	Voltage output : DC0-10V or DC1-5V		
	Current output : DC4-20mA		
Pulse output	Max.load current : Less than DC100mA		
	Max.applied voltage : Less than DC40V		
	Output mode : A or B open collector		
	Frequency output FS-3AR : 0-43Hz		
	Frequency output FS-10AR : 0-93Hz		
	Frequency output FS-30AR : 0-121Hz		

Display	LCD, LED
O ring	Chloroprene or fluoro rubber
Wetted material	POM, polyamide
Adapter size	Rc 3/8" or Rc 1/2"
Adapter material	Stainless steel or brass with nickel plating
Accuracy	FS \pm 2.5%
Flow direction	Free
Positioning	Free
Weight	Approx. 380 g
Protection	Weather resistant electronics

Order form

■ ISO screw(Rc) is used.

Flow range Output Wetted Materials Adapter Materials Adapter size (ISO) O ring Power supply

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How to order : FS-10S-0-J-B-3/8-F-24

	Flow range	Output	Wetted Materials	Adapter Materials	Adapter size	O ring	Power supply
FS-S type	3S 0.5~3 ℓ/min	0 0~10V	J Standard (Polyacetal)	B Standard (BsBM+Ni plating)	3/8 Standard	F Chloroprene rubber	24 DC24V±10%
	10S 1.5~10 ℓ/min	4 4~20mA	B 150°C-compatible (SUS304·316)	S SUS	1/2 *	V Fluoro rubber	12 DC12V±5%
	30S 5~30 ℓ/min		T fluorine resin		1/4 Only on 150°C-compatible bodies		
FS-AR type	3AR 0.5~3 ℓ/min	0 0~10V	J Standard (Polyacetal)	B Standard (BsBM+Ni plating)	3/8 Standard	F Chloroprene rubber	24 DC24V±10%
	10AR 1.5~10 ℓ/min	1 1~5V	B 150°C-compatible (SUS304·316)	S SUS	1/2 *	V Fluoro rubber	12 DC12V±5%
	30AR 5~30 ℓ/min	4 4~20mA P Puls Output	T fluorine resin		1/4 Only on 150°C-compatible bodies		
FS-C type	3C 0.5~3 ℓ/min	0 0~10V	J Standard (Polyacetal)	B Standard (BsBM+Ni plating)	3/8 Standard	F Chloroprene rubber	24 DC24V±10%
	10C 1.5~10 ℓ/min			S SUS	1/2	V Fluoro rubber	
	30C 5~30 ℓ/min						
FS-N type	3N 0.5~3 ℓ/min	P Pulse Output	J Standard (Polyacetal)	B Standard (BsBM+Ni plating)	3/8 Standard	F Chloroprene rubber	24 DC24V±10%
	10N 1.5~10 ℓ/min		B 150°C-compatible (SUS304·316)	S SUS	1/2 *	V Fluoro rubber	12 DC12V±5%
	30N 5~30 ℓ/min		T fluorine resin		1/4 Only on 150°C-compatible bodies		

Regarding <Adapter size>

The diameter type of the connection section differs depending on the type of body material. Please refer to the table below when filling out your order form.

Wetted Materials	Connection diameter		
	3/8	1/2	1/4
Standard type(J)	●	●	—
150°C/Compliant(B)	●	●	●
fluorine resin type(T)	●	—	—

Regarding <Adapter size> Regarding <Adapter material/O-ring>

- When selecting "B: 150°C-compatible" as the body material, do not fill in the adapter material and O-ring fields.
- When selecting "T: Fluororesin" as the body material, do not fill in the O-ring field. We also offer products in which the adapter material is fluoro-resin. Please contact our sales department for details.

* 1/4 diameter cannot be selected for 30L specification.

Other

- ① Please contact our sales department for other specifications.
- ② Please contact our sales department for inquires regarding date of delivery, etc.
- ③ Shape and specification may change without notice due to performance improvements.