

HIGH DURABILITY WITH METAL SUPPORTING BODY CONSTRUCTION FLOW INDICATION WITH ALARM CONTACT IN COMPACT AND LIGHT DESIGN

## **FA-3000** FLOW MONITOR

## OUTLINE

<b>FA-3000</b> is the standard flowmeter with an alarm contact of FLOW MONITOR series which has been welcomed by customers.		
<b>FA-3000</b> indicates flow rate of liquids and outputs an alarm contact at freely adjustable setting point.		
Newly designed metal supported body construction offers best dura-		
bility against piping stress.		
FEATURES		
SAVING COST		
One <b>FA-3000</b> unit covers flow measurement and alarm contact out- put.		And a second sec
COMPACT AND LIGHT DESIGN		
FA-3000 is very much suitable for assembling onto equipment and		
devices due to its compact and light design.		
DURABLE CONSTRUCTION		
Process connection is done through stainless steel fittings which support <b>FA-3000</b> against piping stress.		
ADJUSTABLE ALARM POINT		
Alarm setting point is freely adjustable even after installation.	Contact capacity	AC10VA
WATERPROOF CONSTRUCION		(Max. Volt. 125V, Max. Curr. 0.5A)
FA-3000 can also be used under splashes of water.		DC10W
QUICK DELIVERY AND COMPETITIVE PRICE		(Max. Volt. 100V, Max. Curr. 0.5A)
The standardized specification allows reasonable quick delivery	Alarm action	High-Close FA-3
time.		High-Open FA-3
		Low-Open FA-3

## **RECOMMENDED APPLICATIONS**

- Cooling water line
- Monitoring of leakage of sealing liquids
- Cooling fluids lines in Injection moulding machines
- Liquid cultivating medium supply
- Others

## **STANDARD SPECIFICATION**

Applicable fluid	Water or low viscosity liquids		
Available scale range	0.3~3L/min (FA-31 □□ - □)		
	0.5~5L/min (FA-32 □□ - □ )		
	1~10L/min (FA-33 □□ - □ )		
	2~20L/min (FA-34 □□ - □)		
	3~30L/min (FA-35 □□ - □ )		
	5~50L/min (FA-36 □□ - □ )		
Process connection	Rc3/8, Rc1/2, Rc3/4, Rc1*		
	*Installation length for Rc1 is 160mm.		
	Select Rc1/2 or more for 20 and 30L/min,		
	Rc3/4 or more for 50L/min		
	version to avoid pressure loss.		
Flow direction	Left to Right, Rigth to Left, Bottom to Top,		
	Top to Bottom		
Max. OP. Temp.	60°C		
Max. OP. Press.	0.8MPa		
Indication accuracy	±5% of full scale		
Alam setting accuracy	±5% of full scale		
Flow rate indication	By position of float		
Alarm setting range	20~90% of full scale		
Alarm reset span	Max. 15% of full scale (at 20~70% of full scale)		
Alarm contact	SPST Reed switch (Self-holding type)		

## Electric connection Weight (Approx.) Material

## Low-Open FA-3⊔⊔4-⊔ Lead wire connection (Lead wire 30cm provided) 400g Refer to DIMENSION AND MATERIAL for details.

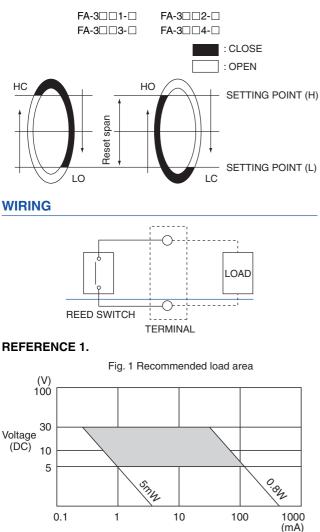
## **MODEL CODE**

FA-3				—		DESCRIPTION
Scale range	1					0.3~3L/min
	2					0.5~5L/min
	3					1~10L/min
	4					2~20L/min
	5					3~30L/min
	6					5~50L/min
	9					Other special scale range
L. L		1				Rc3/8
		2				Rc1/2
Process connection		3				Rc3/4
		4				Rc1
		9				Other special connection
Alarm function			1			High-ON
			2			High-OFF
			3			Low-ON
			4			Low-OFF
			0			No alarm provided
				_	1	Bottom to Top
Flow direction				_	6	Left to Right
				—	7	Right to Left
					8	Top to Bottom
				—	9	Others

## TOKYO KEISO CO., LTD.

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## **ALARM ACTION**



# 100 † † Ļ ÷ 32

**DIMENSION AND MATERIAL** 

Front

L (mm)

150

150

150

160

40

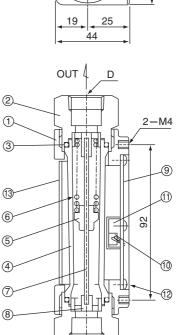
Connection

Rc3/8

Rc1/2

Rc3/4

Rc1

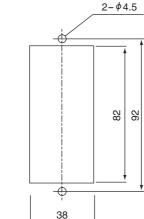


D

IN

40

PANEL CUT



No.	PARTS NAME	MATERIAL		
1	Body	Aluminium Die-casting		
2	Fittings	SUS304		
3	O ring	NBR		
4	Tapered tube	Acryl		
5	Float	PPS resin		
6	Spring	SUS316		
7	Float rod	SUS316		
8	Float stopper	POM		
9	Rear cover	ABS(White)		
10	Reed switch	_		
11	Switch holder	POM		
12	Screw	Brass (C3604)		
13	Scale plate	Transparent resin		

\* Specification is subject to change without notice.



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## Recommended load area is shown in Fig. 1. When used within this area, the life of reed switch will become longest.

#### **REFERENCE 2.**

When used under the condition close to full load or in such inrush load and surge voltage where the load occurs remarkably, the protective circuit shall be prepared for the contact protection.

Current (DC)

#### **REFERENCE 3.**

In case the working voltage is higher than shown in Fig. 1 and the cable length between contact and load is more than 10m, the inrush current flows by the capacity between lines and the contact may weld. Prepare a surge suppressor in series near to the contact as shown in Fig. 2

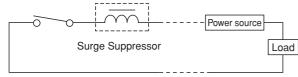


Fig. 2

