2-Color Display Digital Flow Switch
Series *PFM*
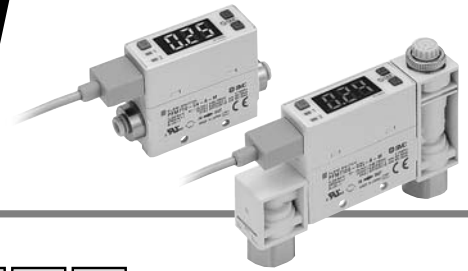
How to Order

PFM 7 | 10 | □ | C4 | □ | A | M | □ | □

Type
| 7 | Integrated display |

Rated flow range (Flow rate range)
10	0.2 to 10 (5) ℓ/min
25	0.5 to 25 (12.5) ℓ/min
50	1 to 50 (25) ℓ/min
11	2 to 100 (50) ℓ/min

* ( ): in the case of CO_2

Flow adjustment valve
| Nil | None |
| S | Yes |

Port size
Symbol	Description	Flow rate range			
		10	25	50	11
01	Rc1/8	●	●	●	
02	Rc1/4				●
N01	NPT1/8	●	●	●	
N02	NPT1/4				●
F01	G1/8	●	●	●	
F02	G1/4				●
C4	ø4 (5/32") One-touch fitting	●			
C6	ø6 One-touch fitting	●	●	●	●
C8	ø8 (5/16") One-touch fitting		●	●	●
N7	ø1/4 One-touch fitting		●	●	●

Calibration certificate
| Nil | Not attached |
| A | Attached |

∗ The certificate is written in English and Japanese. Other languages are available as specials.

Instruction manual
| Nil | With instruction manual (Leaflet: Japanese and English) |
| N | None |

Unit specification
| M | With unit switching function Note 1) |
| Nil | Fixed SI unit Note 2) |

Note 1) Fixed units: Real-time flow rate: ℓ/min
　　　　 Accumulated flow: ℓ, m^3, m^3 x 10^3
Note 2) This product is for overseas use only according to the new Measurement Law. (The SI unit is provided for use in Japan.)

Output specification
A	2 NPN outputs
B	2 PNP outputs
C	1 NPN output + Analog (1 to 5 V)
D	1 NPN output + Analog (4 to 20 mA)
E	1 PNP output + Analog (1 to 5 V)
F	1 PNP output + Analog (4 to 20 mA)
G	1 NPN output + External input Note 3)
H	1 PNP output + External input Note 3)

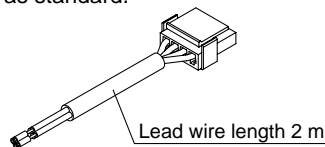Note 3) User can select from external reset, auto shift and auto shift zero.

Piping entry direction
| Nil | Straight |
| L | Bottom side |

∗ Different combinations of piping entry directions for IN and OUT side are available as made-to-order. (Refer to P16.)

Accessory

A lead wire with connector is attached as standard.

ZS-33-D

Lead wire length 2 m

Piping Variations

	With one-touch fittings (C4, C6, C8, N7)		Female thread (01, 02, N01, N02, F01, F02)	
	Straight (Nil)	Bottom side (L)	Straight (Nil)	Bottom side (L)
Without flow adjustment (Nil)				
With flow adjustment (S)				

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Options (Please order separately.)

Panel mounting adapter (Without flow adjustment valve)

ZS-33-J

Panel mounting adapter A
Panel mounting adapter B
Panel
Mounting bracket
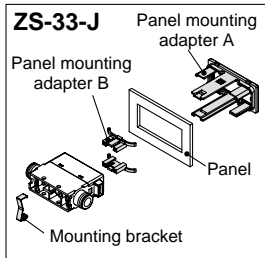
Panel mounting adapter (With flow adjustment valve)

ZS-33-JS

Panel mounting adapter A
Panel mounting adapter B
Panel
Mounting bracket
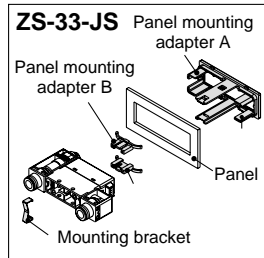
Bracket (Without flow adjustment valve)

ZS-33-M

Tapping screw (accessory)
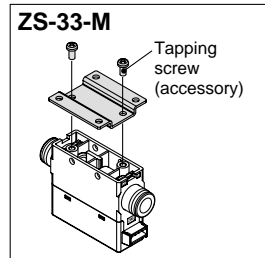
Bracket (With flow adjustment valve)

ZS-33-MS

Tapping screw (accessory)
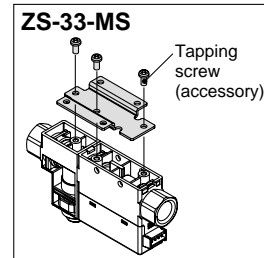
Rubber cover for connector parts (Silicon rubber)

ZS-33-F
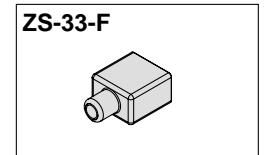
DIN rail mounting bracket

ZS－33－R☐

Stations

1	1 station
2	2 stations
3	3 stations
4	4 stations
5	5 stations

• DIN rail (supplied by customers)
• Port size F02: G1/4 cannot be mounted with a DIN rail.
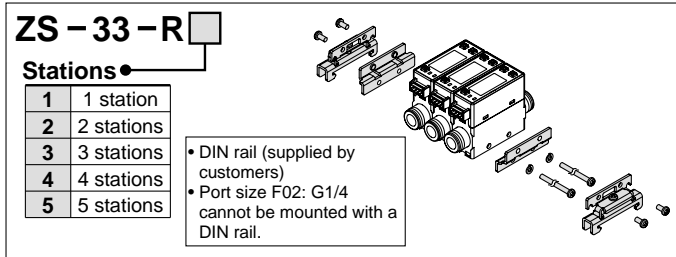
Through-hole mounting bracket

ZS-33-U

• Thread, washer (supplied by customers)
• The size is equivalent to M3. Select length depending on conditions.
• Port size, F02: G1/4 cannot be mounted.
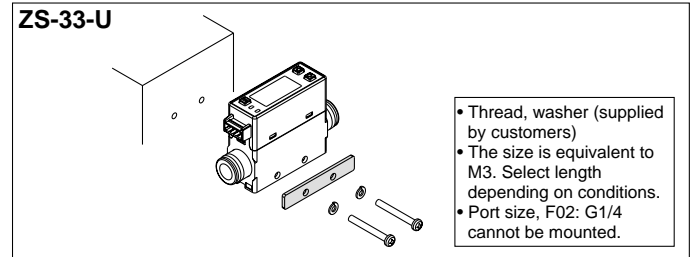
Component Parts

No.	Description		Model
1	**Body**		
2	**Lead wire with connector (2 m) (accessory)**		**ZS-33-D**
3	**IN side Bottom side piping adapter (with pin)**		**ZS-33-P1L**
4	**OUT side Bottom side piping adapter (with pin)**		**ZS-33-P2L**
5	**For straight piping Flow adjustment valve assembly (with pin)**	**For 10 *l*/min**	**ZS-33-10N**
		For 25 *l*/min	**ZS-33-25N**
		For 50 *l*/min	**ZS-33-50N**
		For 100 *l*/min	**ZS-33-11N**
6	**For bottom side piping Flow adjustment valve assembly (with pin)**	**For 10 *l*/min**	**ZS-33-10NL**
		For 25 *l*/min	**ZS-33-25NL**
		For 50 *l*/min	**ZS-33-50NL**
		For 100 *l*/min	**ZS-33-11NL**
7	**One-touch fitting**	**ø4 (5/32")**	**ZS-33-C4**
		ø6	**ZS-33-C6**
		ø8 (5/16")	**ZS-33-C8**
		ø1/4	**ZS-33-N7**
8	**Female mounting**	**Rc1/8**	**ZS-33-01**
		NPT1/8	**ZS-33-N01**
		G1/8	**ZS-33-F01**
		Rc1/4	**ZS-33-02**
		NPT1/4	**ZS-33-N02**
		G1/4	**ZS-33-F02**

Straight piping

Accessory

Bottom side piping

Straight piping with flow adjustment valve

Bottom side piping with flow adjustment valve

SMC

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