

# 2-Color Display Digital Flow Switch

## PF2M7 Series

### How to Order

PF2M7 **10** **□** - **C6** - **A** **□** - **M** **□** **□**

Integrated display • 1 2 3 4 5 6 7 8

#### 1 Rated flow range

01	0.01 to 1 L/min	25	0.3 to 25 L/min
02	0.02 to 2 L/min	50	0.5 to 50 L/min
05	0.05 to 5 L/min	11	1 to 100 L/min
10	0.1 to 10 L/min	21	2 to 200 L/min

#### 2 Flow adjustment valve/Piping entry direction

Symbol	Flow adjustment valve	Piping entry direction	Rated flow range							
			1	2	5	10	25	50	100	200
Nil	None	Straight	●	●	●	●	●	●	●	●
S	Yes	Straight	—	—	●	●	●	●	●	●
L	None	Rear ported	●	●	●	●	●	●	●	●
W	Yes	Rear ported	—	—	●	●	●	●	●	●

\* 1 and 2 L/min type products are not available with a flow adjustment valve.

#### 3 Port size

Symbol	Port size	Rated flow range									
		1	2	5	10	25	50	100	200		
01	Rc1/8	●	●	●	●	●	●	—	—		
N1	NPT1/8	●	●	●	●	●	●	—	—		
F1	G1/8	—	—	●	●	●	●	—	—		
02	Rc1/4	—	—	—	—	—	—	●	●		
N2	NPT1/4	—	—	—	—	—	—	●	●		
F2	G1/4	—	—	—	—	—	—	●	●		
C4*1	ø4	●	●	●	●	—	—	—	—		
C6	ø6	●	●	●	●	●	●	—	—		
C8	ø8	—	—	—	—	—	—	●	●		
N7	ø1/4"	—	—	—	—	—	—	●	●		

\*1 Made to order (Produced upon receipt of order)

#### Piping variations

With One-touch fitting C4*2, C6, C8, N7	Female thread 01, 02, N1, N2, F1, F2
Straight	Straight
Rear ported	Rear ported

\*2 Made to order (Produced upon receipt of order)

#### 4 Output specification

Symbol	OUT1	OUT2
A	NPN	NPN
B	PNP	PNP
C	NPN	Analog 1 to 5 V ⇔ Analog 0 to 10 V*3
D	NPN	Analog 4 to 20 mA
E	PNP	Analog 1 to 5 V ⇔ Analog 0 to 10 V*3
F	PNP	Analog 4 to 20 mA

\*3 1 to 5 V or 0 to 10 V can be selected by pressing the button.  
The default setting is 1 to 5 V.

#### 7 Option 2

Nil	R	S
Without bracket	Bracket (For the type without a flow adjustment valve) <b>ZS-33-M</b> With 2 tapping screws * Interchangeable with the existing PFM series	Bracket (For the type with a flow adjustment valve) <b>ZS-33-MS</b> With 3 tapping screws * Interchangeable with the existing PFM series
T	V	
Panel mount adapter (For the type without a flow adjustment valve) <b>ZS-33-2J</b> Panel mount adapter B Mounting bracket	Panel mount adapter (For the type with a flow adjustment valve) <b>ZS-33-2JS</b> Panel mount adapter S Panel mount adapter B Mounting bracket	

\* Options are shipped together with the product but do not come assembled.

#### 5 Option 1

Nil	W
Lead wire with connector (2 m) <b>ZS-33-D</b> * Interchangeable with the existing PFM7 series	Lead wire with connector (2 m) + Connector cover (Silicone rubber) <b>ZS-33-F</b> <b>ZS-33-D</b> + * Interchangeable with the existing PFM7 series
N	
Without lead wire with connector	

#### 6 Unit specification

M	SI unit only*4
Nil	Unit selection function*5

\*4 Fixed unit: Instantaneous flow: L/min  
Accumulated flow: L

\*5 This product is for overseas use only.  
(The SI unit type is provided for use in Japan in accordance with the New Measurement Act.)  
The unit can be changed.  
Instantaneous flow: L/min ⇔ cfm  
Accumulated flow: L ⇔ ft<sup>3</sup>

#### 8 Calibration certificate\*6

Nil	None
A	Yes

\*6 Made to order  
The certificate is in both English and Japanese.

### DIN Rail Mounting Bracket (To Be Ordered Separately)

**ZS-33-R3**

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

DIN rail part number: AXT100-DR-□

\* Refer to page 27 for the DIN rail mounting dimensions.

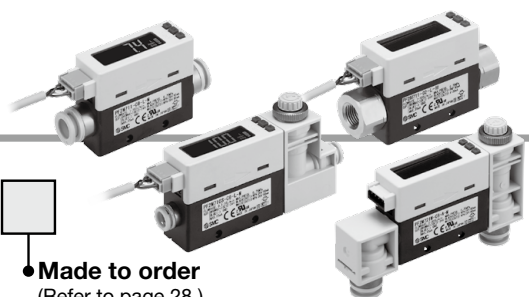
## 2-Color Display



**RoHS**

## 2-Color Display Digital Flow Switch

# PF2M7-L Series



## How to Order

PF2M 7 10 - C6 - L - M -

**Integrated display**

● **Made to order**  
(Refer to page 28.)

**1 Rated flow range**

<b>01</b>	0.01 to 1 L/min	<b>25</b>	0.2 to 25 L/min
<b>02</b>	0.02 to 2 L/min	<b>50</b>	0.5 to 50 L/min
<b>05</b>	0.05 to 5 L/min	<b>11</b>	1 to 100 L/min
<b>10</b>	0.1 to 10 L/min	<b>21</b>	2 to 200 L/min

## 2 Flow adjustment valve/Piping entry direction

Symbol	Flow adjustment valve	Piping entry direction	Rated flow range							
			1	2	5	10	25	50	100	200
<b>Nil</b>	None	Straight	●	●	●	●	●	●	●	
<b>S</b>	Yes	Straight	—	—	●	●	●	●	●	
<b>L</b>	None	Rear ported	●	●	●	●	●	●	●	
<b>W</b>	Yes	Rear ported	—	—	—	—	—	—	—	

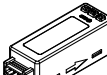
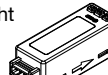
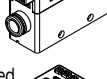
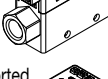
\* 1 and 2 L/min type products are not available with a flow adjustment valve.

### 3 Port size

Symbol	Port size	Rated flow range							
		1	2	5	10	25	50	100	200
<b>01</b>	Rc1/8	●	●	●	●	●	●	—	—
<b>N1</b>	NPT1/8	●	●	●	●	●	●	—	—
<b>F1</b>	G1/8	●	●	●	●	●	●	—	—
<b>02</b>	Rc1/4	—	—	—	—	—	—	●	●
<b>N2</b>	NPT1/4	—	—	—	—	—	—	●	●
<b>F2</b>	G1/4	—	—	—	—	—	—	●	●
<b>C4*1</b>	ø4	●	●	●	●	—	—	—	—
<b>C6</b>	ø6	●	●	●	●	●	●	—	—
<b>C8</b>	ø8	—	—	—	—	—	—	●	●
<b>N7</b>	ø1/4"	—	—	—	—	●	●	●	●

\*1 Made to order (Produced upon receipt of order)

## Piping variations

Piping variations	
With One-touch fitting	Female thread
<b>C4<sup>3/2</sup>, C6, C8, N7</b> Straight 	<b>01, 02, N1, N2, F1, F2</b> Straight 
Rear ported 	Rear ported 

\*2 Made to order (Produced upon receipt of order)

#### 4 Output specification

Symbol	OUT1	OUT2
<b>L</b>	IO-Link/ NPN/PNP	—
<b>L2</b>	IO-Link/ NPN/PNP	NPN/PNP/External input
<b>L3</b>	IO-Link/ NPN/PNP	Analog 1 to 5 V ↔ Analog 0 to 10 V*3
<b>L4</b>	IO-Link/ NPN/PNP	Analog 4 to 20 mA

\*3 1 to 5 V or 0 to 10 V can be selected by pressing the button.  
The default setting is 1 to 5 V.


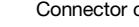
## 6 Unit specification

<b>M</b>	SI unit only*4
<b>Nil</b>	Unit selection function*5

\*4 Fixed unit: Instantaneous flow: L/min  
Accumulated flow: L

\*5 This product is for overseas use only.  
(The SI unit type is provided for use  
in Japan in accordance with the New  
Measurement Act.)  
The unit can be changed.  
Instantaneous flow: L/min  $\leftrightarrow$  cfm  
Accumulated flow: L  $\leftrightarrow$  ft<sup>3</sup>

**5 Option 1**

<p><b>Nil</b></p> <p>Lead wire with connector (2 m)</p>  <p><b>ZS-33-D</b></p> <p>* Interchangeable with the existing PFM7 series</p>	<p><b>W</b></p> <p>Lead wire with connector (2 m)</p> <p>+</p> <p>Connector cover (Silicone rubber)</p> <p><b>ZS-33-F</b></p>  <p><b>ZS-33-D</b> +</p> <p>* Interchangeable with the existing PFM7 series</p>
<p><b>N</b></p> <p>Without lead wire with connector</p>	<p><b>Q</b></p> <p>M12 conversion lead wire (0.1 m)</p>

## 8 Calibration certificate\*6

<b>Nil</b>	None
<b>A</b>	Yes





\*6 Made to order  
The certificate is in both  
English and Japanese.

**Made to Order**

Symbol	Specification
<b>X731</b>	Compatible with argon (Ar) and carbon dioxide (CO <sub>2</sub> ) mixed gas

For details, refer to page 28.

### 7 Option 2

Nil	R	S
Without bracket	<p>Bracket (For the type without a flow adjustment valve)</p> <p><b>ZS-33-M</b></p>  <p>With 2 tapping screws</p> <p>* Interchangeable with the existing PFM series</p>	<p>Bracket (For the type with a flow adjustment valve)</p> <p><b>ZS-33-MS</b></p>  <p>With 3 tapping screws</p> <p>* Interchangeable with the existing PFM series</p>
	<p><b>T</b></p> <p>Panel mount adapter (For the type without a flow adjustment valve)</p> <p><b>ZS-33-2J</b></p>  <p>Panel mount adapter</p> <p>Panel mount adapter B</p> <p>Panel</p> <p>Mounting bracket</p>	<p><b>V</b></p> <p>Panel mount adapter (For the type with a flow adjustment valve)</p> <p><b>ZS-33-2JS</b></p>  <p>Panel mount adapter S</p> <p>Panel mount adapter B</p> <p>Panel</p> <p>Mounting bracket</p>

\* Options are shipped together with the product but do not come assembled.

### DIN Rail Mounting Bracket (To Be Ordered Separately)

Refer to page 11.

