

# Series PF2W

## How to Order



Remote Type  
Display Unit

PF2W3 0 0 — A — M

### Flow rate range

Symbol	Flow rate range	Type for sensor unit
0	0.5 to 4 ℓ/min	PF2W504
	2 to 16 ℓ/min	PF2W520
	5 to 40 ℓ/min	PF2W540
3	10 to 100 ℓ/min	PF2W511

### Output specification

0	NPN open collector 2 outputs
1	PNP open collector 2 outputs

### Mounting

A	Panel mounting
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### Unit specification

Nil	With unit switching function
M	Fixed SI unit <sup>Note)</sup>

<sup>Note)</sup> Fixed units:  
Real-time flow rate: ℓ/min  
Accumulated flow: ℓ

### Panel mount adapter part no.

Description	Panel adapter B
Part No.	ZS-22-02

## Specifications

Model		PF2W300/301			PF2W330/331
Flow rate measurement range <small>Note 1)</small>		0.35 to 4.5 ℓ/min	1.7 to 17.0 ℓ/min	3.5 to 45 ℓ/min	7 to 110 ℓ/min
Set flow rate range <small>Note 1)</small>		0.35 to 4.5 ℓ/min	1.7 to 17.0 ℓ/min	3.5 to 45 ℓ/min	7 to 110 ℓ/min
Minimum set unit <small>Note 1)</small>		0.05 ℓ/min	0.1 ℓ/min	0.5 ℓ/min	1 ℓ/min
Accumulated pulse flow rate exchange value (Pulse width: 50 ms) <small>Note 1)</small>		0.05 ℓ/pulse	0.1 ℓ/pulse	0.5 ℓ/pulse	1 ℓ/pulse
<small>Note 2)</small> Display units	Real-time flow rate	ℓ/min, gal(US)/min			
	Accumulated flow	ℓ, gal(US)			
Accumulated flow range <small>Note 3)</small>		0 to 999999 ℓ			
Linearity <small>Note 4)</small>		±5% F.S. or less			±3% F.S. or less
Repeatability <small>Note 4)</small>		±3% F.S. or less			±1% F.S. or less
Temperature characteristics		±2% F.S. or less (0 to 50°C, based on 25°C), ±1% F.S. or less (15 to 35°C, based on 25°C)			
Current consumption (No load)		50 mA or less			60 mA or less
Weight		45 g			
<small>Note 5)</small> Output specifications	Switch output	NPN open collector (PF2W300, PF2W330)	Maximum load current: 80 mA Internal voltage drop: 1 V or less (with load current of 80 mA) Maximum applied voltage: 30 V 2 outputs		
		PNP open collector (PF2W301, PF2W331)	Maximum load current: 80 mA Internal voltage drop: 1.5 V or less (with load current of 80 mA) 2 outputs		
	Accumulated pulse output	NPN or PNP open collector (same as switch output)			
Resistance	Enclosure	IP40			
	Operating temperature range	Operating: 0 to 50°C, Stored: −25 to 85°C (with no freezing and condensation)			
	Withstand voltage	1000 VAC for 1 min. between external terminal and case			
	Insulation resistance	50M Ω or more (500 VDC Mega) between external terminal and case			
	Vibration resistance	10 to 500 Hz with a 1.5 mm amplitude or 98 m/s <sup>2</sup> acceleration in each X, Y, Z direction for 2 hrs, whichever is smaller.			
	Impact resistance	490 m/s <sup>2</sup> in X, Y, Z directions 3 times each			
	Noise resistance	1000 Vp-p, Pulse width 1 μs, Rise time 1 ns			
Indicator light		3-digit, 7-segment LED			
Status LED's		Illuminates when output is ON, OUT1: Green; OUT2: Red			
Power supply voltage		12 to 24 VDC (ripple ±10% or less)			
Response time		1 sec. or less			
Hysteresis		Hysteresis mode: Variable (can be set from 0) Window comparator mode: 3-digit fixed <small>Note 6)</small>			

<sup>Note 1)</sup> Values vary depending on each set flow rate range.

<sup>Note 2)</sup> For digital flow switch with unit switching function. (Fixed SI unit [ℓ/min or ℓ] will be set for switch types without the unit switching function.)

<sup>Note 3)</sup> Accumulated flow rate is reset when the power supply turns OFF.

<sup>Note 4)</sup> The system accuracy when combined with PF2W5□□.

<sup>Note 5)</sup> Switch output and accumulated pulse output can be selected during initial setting.

<sup>Note 6)</sup> Window comparator mode — Since hysteresis (H) will reach 3 digits, keep P\_1 and P\_2 or n\_1 and n\_2 apart by 7 digits or more. (In case of output OUT2, n\_1, 2 to be n\_3, 4 and P\_1, 2 to be P\_3, 4.)

<sup>Note 7)</sup> The display unit conforms to the CE mark.