



How to Order

Remote type
Display unit

PF2W3 0 0 — A —

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 specifications

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

Mounting

A	Panel mounting
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Panel mount adapter part no.

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

Unit specifications

Nil	With unit switching function
M	Fixed SI unit ^{Note)}

Note) Fixed unit:
Real-time flow rate: ℓ/min
Accumulated flow: ℓ

Specifications

Model		PF2W300/301		PF2W330/331
Flow rate measurement range ^{Note 1)}		0.35 to 4.5 ℓ/min	1.7 to 17.0 ℓ/min	3.5 to 45 ℓ/min
Set flow rate range ^{Note 1)}		0.35 to 4.5 ℓ/min	1.7 to 17.0 ℓ/min	3.5 to 45 ℓ/min
Minimum setting unit ^{Note 1)}		0.05 ℓ/min	0.1 ℓ/min	0.5 ℓ/min
Accumulated pulse flow rate exchange value (Pulse width: 50 ms) ^{Note 1)}		0.05 ℓ/pulse	0.1 ℓ/pulse	0.5 ℓ/pulse
Display unit ^{Note 2)}	Real-time flow rate	ℓ/min, gal (US)/min		
	Accumulated flow	ℓ, gal (US)		
Accumulated flow range		0 to 999999 ℓ		
Linearity ^{Note 3)}		±5% F.S. or less		±3% F.S. or less
Repeatability ^{Note 3)}		±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		
Output specifications ^{Note 4)}	Switch output	NPN open collector (PF2W300, PF2W330) Maximum load current: 80 mA Internal voltage drop: 1V 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 (No condensation or freezing)		
	Withstand voltage	1000 VAC for 1 min. between external terminal and case		
	Insulation resistance	50 MΩ (500 VDC) between external terminal and case		
	Vibration resistance	10 to 500 Hz at whichever is smaller: 1.5 mm amplitude or 98 m/s ² acceleration in X, Y, Z directions for 2 hrs. each		
	Impact resistance	490 m/s ² in X, Y, Z directions 3 times each		
	Noise resistance	1000 Vp-p, Pulse width 1 μs, Rise time 1 ns		
Display	3-digit, 7-segment LED			
Indicator light	Lights up 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 ^{Note 5)}			

Note 1) Values vary depending on each set flow rate range.

Note 2) 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.)

Note 3) The system accuracy when combined with PF2W5.

Note 4) Switch output and accumulated pulse output can be selected during initial setting.

Note 5) 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.)

Note 6) The display unit is conformed to CE mark.

ZSE□
ISE□

PSE

ZSE3
I

PS

ZSE1
I

ZSP

ISA2

IS□

ZSM

PF2□

IF□

Data