

How to Order

Remote Type
Sensor Unit

PF2A5 **10** **01** **C**

Flow rate range

10	1 to 10 ℓ/min
50	5 to 50 ℓ/min
11	10 to 100 ℓ/min
21	20 to 200 ℓ/min
51	50 to 500 ℓ/min

Thread type

Nil	Rc
N	NPT
F	G

Port size

Symbol	Port size	Flow rate (ℓ/min)					Applicable model
		10	50	100	200	500	
01	1/8	●	●				PF2A510/550
02	1/4	●	●				
03	3/8			●	●		PF2A511/521
04	1/2					●	PF2A551

Option (Refer to page 35.)

Nil	None
C	e-con connector x 1 pc.

The cable and connector are shipped unassembled.

Lead wire (Refer to page 35.)

Nil	M12 3 m lead wire with connector
N	Without lead wire

Output specification

Symbol	Specification	Applicable display unit (monitor) model
Nil	Output for display unit	Series PF2A300
1	Output for display unit + analog output (1 to 5 V)	Series PF2A200/300
2	Output for display unit + analog output (4 to 20 mA)	Series PF2A300



Specifications

Model		PF2A510	PF2A550	PF2A511	PF2A521	PF2A551
Measured fluid		Air, Nitrogen				
Detection type		Heater type				
Rated flow range		1 to 10 ℓ/min	5 to 50 ℓ/min	10 to 100 ℓ/min	20 to 200 ℓ/min	50 to 500 ℓ/min
Operating pressure range		−50 kPa to 0.5 MPa		−50 kPa to 0.75 MPa		
Proof pressure		1.0 MPa				
Operating fluid temperature		0 to 50°C				
Linearity ^{Note 1)}		±5% F.S. or less				
Repeatability ^{Note 1)}		±1% F.S. or less (Connected with PF2A3□□), ±3%F.S. or less (Connected with PF2A2□□)				
Temperature characteristics		±2% F.S. or less (15 to 35°C, based on 25°C) ±3% F.S. or less (0 to 50°C, based on 25°C)				
Output specifications ^{Note 2)}	Output for display unit	Analog voltage output (non-linear) output impedance 1 kΩ output for display unit PF2A3□□				
	Analog output	Voltage output 1 to 5 V (within the flow rate range) Linearity: ±5% F.S. or less; allowable load resistance: 100 kΩ or more.				
		Current output 4 to 20 mA (within the flow rate range) Linearity: ±5% F.S. or less; allowable load resistance: 300 Ω or less with 12 VDC, 600 Ω or less with 24 VDC				
Power supply voltage		12 to 24 VDC (ripple ±10% or less)				
Current consumption (No load)		100 mA or less				110 mA or less
Resistance	Enclosure	IP65				
	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 ² acceleration, whichever is smaller.				
	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				
Weight ^{Note 3)}		200 g		240 g		
Port size (Rc, NPT, G)		1/8, 1/4		3/8		1/2

Note 1) The system accuracy when combined with PF2A2□□/3□□.

Note 2) Output system can be selected during initial setting.

Note 3) Without lead wire. (Add 20 g for the types of analog output whether voltage or current output selected.)

Note 4) Flow rate unit measured under the following conditions: 0°C and 101.3 kPa.

Note 5) The sensor unit conforms to the CE mark.