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## **Specifications**

Refer to pages 202 and 203 for Flow Switch Precautions. For details about the Specific Product Precautions, refer to the Operation Manual on the SMC website, http://www.smcworld.com

PF2A300 series

PF2A200/300 series

PF2A300 series

Output for monitor unit

Output for monitor unit + analog output (1 to 5 V)

Output for monitor unit + analog output (4 to 20 mA)

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				
Accuracy Note 1, 2)		±5% F.S.				
Repeatability Note 1)		±1% F.S. (Connected with PF2A3□□), ±3%F.S. (Connected with PF2A2□□)				
Temperature characteristics		±2% F.S. (15 to 35°C, 25°C reference) ±3% F.S. (0 to 50°C, 25°C reference)				
Output Note 3) specifications	Output for monitor unit	Analog voltage output (non-linear) output impedance 1 kΩ output for monitor unit PF2A3□□				
	Analog output	Voltage output 1 to 5 V (within the flow rate range) Accuracy: $\pm 5\% F.S.$ , Min. load impedance: $100~k\Omega$ (Output impedance: $1~k\Omega$ )				
		Current output 4 to 20 mA (within the flow rate range) Accuracy: $\pm 5\%$ F.S., Max. load impedance: $300\Omega$ or less (at 12 VDC), $600\Omega$ or less (at 24 VDC)				
Power supply voltage		12 to 24 VDC ±10%				
Current consumption		100 mA or less				110 mA or less
Enclosure Operating temperature range Withstand voltage Insulation resistance		IP65				
Op	perating temperature range	Operating: 0 to 50°C, Stored: –25 to 85°C (with no freezing and condensation)				
w	ithstand voltage	1000 VAC for 1 minute between terminals and housing				
In	sulation resistance	$50\ M\Omega$ or more (500 VDC measured via megohmmeter) between terminals and housing				
Standards and regulations		CE, RoHS				
Weight Note 4)		20	200 g 240 g			
Port	size (Rc, NPT, G)	1/8	, 1/4	3	3/8	1/2

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

Note 2) The playing on the IN side must have a straight section of piping whose length is 8 times the piping diameter or more. If a straight section of piping is not installed, the accuracy may vary by ±5% F.S. or more. Note 3) Output system can be selected during initial setting.

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Note 3) Output lead wire. Add 20 g for the types of analog output whether voltage or current output selected.)

Note 5) Flow rate unit measured under the following conditions: 0°C and 101.3 kPa.

Note 6) The sensor unit conforms to the CE marking.

Note 7) For details about wiring and thread type, refer to the Operation Manual that can be downloaded from SMC website (http://www.smcworld.com). Note 8) Any products with tiny scratches, smears, or display color variation or brightness which does not affect the performance are verified as conforming products.

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