

# Series Variations

Model Selection Table

Self-contained Type

Model	PFM7	PF2A7
Fluid	Dry air, N <sub>2</sub> , Ar, CO <sub>2</sub>	Air, N <sub>2</sub>
Calibration method	Push-button calibration	
Rated flow range	0.2 to 10 L/min 0.5 to 25 L/min 1 to 50 L/min 2 to 100 L/min	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 150 to 3000 L/min 300 to 6000 L/min 600 to 12000 L/min
Power supply voltage	24 VDC ±10%	
Temperature characteristics (based on 25°C)	±2%F.S. (15 to 35°C) ±5%F.S. (0 to 50°C)	±3%F.S. (15 to 35°C) ±5%F.S. (0 to 50°C) ±2%F.S. (PF2A7□□H: 0 to 50°C)
Repeatability	±1%F.S. (Fluid: Dry air) Analog output: ±3%F.S.	±1%F.S. (PF2A7□□, PF2A7□□H) ±2%F.S. (PF2A7□1)
Hysteresis	Hysteresis mode: Variable Window comparator mode: Variable	Hysteresis mode: Variable Window comparator mode: Fixed (3 digits*) * Digit is min. calibration unit.
Output	NPN/PNP open collector Accumulated pulse output Analog voltage output Analog current output	NPN/PNP open collector Accumulated pulse output
Display	2-color display	1-color display
Enclosure	IP40	
Note	Flow adjustment valve integrable Panel mounting possible DIN rail mountable Selectable flow rate display unit Responses time setting function → All renewed Secret code setting function Power-saving mode Accumulated flow display function	Selectable flow rate display unit Accumulated flow display function
Page	P.957	P.1017

PF3W



PVC piping type

Water, ethylene glycol aqueous solution

Water, deionized water, chemicals

0.5 to 4 L/min  
2 to 16 L/min  
5 to 40 L/min  
10 to 100 L/min  
50 to 250 L/min

10 to 100 L/min  
30 to 250 L/min

12 to 24 VDC  $\pm 10\%$

$\pm 5\%$ F.S. (0 to 50°C)

$\pm 2\%$ F.S.

Variable

NPN/PNP open collector  
Accumulated pulse output  
Analog voltage output  
Analog current output

3-color display

IP65

3-color/2-screen display  
Integrated temperature sensor  
Secret code setting function  
Power-saving mode  
Accumulated flow display function

P.1039

PFM

PFMV

PF2A

PF3W

PF2D








IF

# Series Variations

Model Selection Table

Self-contained Type

Model	Sensor unit	Monitor unit	Sensor unit	Monitor unit	Sensor unit	Monitor unit	
	PFM5	PFM3	PFMV5	PFMV3	PF2A5	PF2A3	PF2A2
Fluid	Dry air, N <sub>2</sub> , Ar, CO <sub>2</sub>		Dry air, N <sub>2</sub>		Air, N <sub>2</sub>		
Sensor input amount			1 input		1 input		1 input    4 inputs
Calibration method	Push-button calibration		Push-button calibration		Push-button calibration		
Rated flow range	0.2 to 10 L/min 0.5 to 25 L/min 1 to 50 L/min 2 to 100 L/min		0 to 0.5 L/min 0 to 1 L/min 0 to 3 L/min		-0.5 to 0.5 L/min -1 to 1 L/min -3 to 3 L/min		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
Power supply voltage	24 VDC±10%		24 VDC±10%		12 to 24 VDC ±10%		
Temperature characteristics (25°C reference)	±2% F.S. (15 to 35°C) ±5% F.S. (0 to 50°C)	±0.5% F.S. (0 to 50°C)	±2% F.S. (15 to 35°C) ±5% F.S. (0 to 50°C)	±0.5% F.S. (0 to 50°C)	±2% F.S. (15 to 35°C) ±3% F.S. (0 to 50°C)	±1% F.S. (15 to 35°C) ±2% F.S. (0 to 50°C)	±2% F.S. (0 to 50°C)
Repeatability	±0.1% F.S. (Fluid: Dry air) Analog output: ±5% F.S.	±0.1% F.S. (Fluid: Dry air) Analog output: ±5% F.S.	±0.1% F.S. (Fluid: Dry air) Analog output: ±5% F.S.	±0.1% F.S. (Fluid: Dry air) Analog output: ±5% F.S.	±1% F.S. (Connected with PF2A3□) ±2% F.S. (Connected with PF2A2□)	±0.1% F.S.	±3% F.S.
Hysteresis	Hysteresis mode: Variable Window comparator mode: Variable		Hysteresis mode: Variable Window comparator mode: Variable		Hysteresis mode: Variable Window comparator mode: Fixed (3 digits*) * Digit is min. calibration unit.		
Output	Analog voltage output Analog current output	NPN/PNP open collector Accumulated pulse output Analog voltage output Analog current output	Analog voltage output Analog current output	NPN/PNP open collector Analog voltage output Analog current output	Analog voltage output Analog current output	NPN/PNP open collector Accumulated pulse output	
Display	2-color display		2-color display		1-color display		1-color display
Enclosure	IP40		IP40		IP65	IP40	Front only: IP65 The rest: IP40
Note	Flow adjustment valve integrable Panel mounting possible Manifold mountable DIN rail mountable	Panel mounting possible Selectable flow rate display unit Security code setting function Power-saving mode Accumulated flow display function	Manifold mountable		Panel mounting possible Selectable flow rate display unit Security code setting function Power-saving mode Auto shift function	Connectable with 4 ch monitor Selectable flow rate display unit Accumulated flow display function	
Page	P.957		P.999		P.1017		

Sensor unit	Monitor unit	Sensor unit	Sensor unit	Monitor unit	Monitor unit
<b>PF3W5</b>	<b>PF3W3</b>			<b>PF2D3</b>	<b>PF2D2</b>
		<b>PVC piping type</b>			
Water, ethylene glycol aqueous solution		Water, deionized water, chemicals	Deionized water, Fluids that do not corrode or osmose SuperPFA.		
	1 input			1 input	4 inputs
	Push-button calibration			Push-button calibration	
0.5 to 4 L/min 2 to 16 L/min 5 to 40 L/min 10 to 100 L/min 50 to 250 L/min		10 to 100 L/min 30 to 250 L/min		0.4 to 4 L/min 1.8 to 20 L/min 4 to 40 L/min	
12 to 24 VDC $\pm 10\%$			12 to 24 VDC $\pm 10\%$		
$\pm 5\%$ F.S. (0 to 50°C)	$\pm 0.5\%$ F.S. (0 to 50°C)	$\pm 5\%$ F.S. (0 to 50°C)	$\pm 5\%$ F.S. (0 to 50°C)	$\pm 1\%$ F.S. (15 to 35°C) $\pm 2\%$ F.S. (0 to 50°C)	$\pm 2\%$ F.S. (0 to 50°C)
$\pm 2\%$ F.S.	$\pm 0.5\%$ F.S.	$\pm 2\%$ F.S.	$\pm 1\%$ F.S.	$\pm 0.5\%$ F.S.	$\pm 3\%$ F.S.
	Variable			Hysteresis mode: Variable Window comparator mode: Fixed (3 digits*) * Digit is min. calibration unit.	
Analog voltage output Analog current output	NPN/PNP open collector Analog voltage output Analog current output	Analog voltage output Analog current output	Analog voltage output Analog current output	NPN/PNP open collector Accumulated pulse output	
	3-color display			1-color display	1-color display
IP65	Front only: IP65 The rest: IP40	IP65	IP65	IP40	Front only: IP65 The rest: IP40
Temperature sensor and flow adjustment valve integrable Flow indicator	3-step setting Copy function 3-color/ 2-screen display	Flow indicator	Connectable with 4 ch monitor	Selectable flow rate display unit Accumulated flow display function	
<b>P.1039</b>			<b>P.1067</b>		

PFM

PFMV

PF2A

PF3W

PF2D

IF