

Series Variations

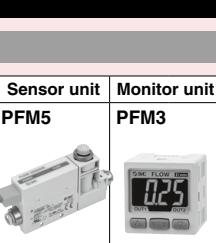
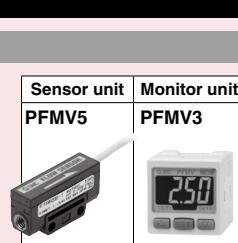
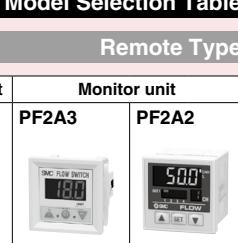
Model Selection Table

Self-contained Type					
Model	PF2M7(-L)	PFM7	PF2A7	PF3A7□H	
Fluid	Dry air, N ₂ , Ar, CO ₂	Air, N ₂	Air, N ₂	Dry air, N ₂	
Calibration method				Push-button calibration	
Rated flow range	0.01 to 1 L/min 0.02 to 2 L/min 0.05 to 5 L/min 0.1 to 10 L/min 0.3 to 25 L/min 0.5 to 50 L/min 1 to 100 L/min	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	30 to 3000 L/min 60 to 6000 L/min 120 to 12000 L/min	2 to 200 L/min 5 to 500 L/min 10 to 1000 L/min 20 to 2000 L/min
Power supply voltage	PF2M7: 12 to 24 VDC ±10% PF2M7-L: 18 to 30 VDC ±10%	24 VDC ±10%	12 to 24 VDC ±10%	24 VDC ±10%	12 to 24 VDC ±10%
Temperature characteristics (based on 25°C)	±3% F.S. ±1 digit (15 to 35°C) ±5% F.S. ±1 digit (0 to 50°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)	±5% F.S. (0 to 50°C)	±2% F.S. (15 to 35°C) ±5% F.S. (0 to 50°C)
Repeatability	±1% F.S. ±1 digit (Fluid: Dry air) Analog output: ±3% F.S.	±1% F.S. (Fluid: Dry air) Analog output: ±3% F.S.	±1% F.S. (PF2A7□0, PF2A7□H) ±2% F.S. (PF2A7□1)	±1% F.S.	±1% F.S. (Fluid: Dry air)
Hysteresis	Hysteresis mode: Variable Window comparator mode: Variable		Hysteresis mode: Variable Window comparator mode: Fixed (3 digits ^{±1}) *1 Digit is min. calibration unit.		Hysteresis mode: Variable Window comparator mode: Variable
Output	NPN/PNP open collector Accumulated pulse output Analog voltage output Analog current output	NPN/PNP open collector Accumulated pulse output		NPN/PNP open collector Accumulated pulse output Analog voltage output Analog current output	
Display	2-color LCD display	2-color display	1-color display	3-color LCD display	2-color LED display 2-color LCD display
Enclosure	IP40		IP65	IP65	IP40
Note	Analog free span function Reversible display mode Delay time setting Flow adjustment valve integrable Selectable flow rate display unit Secret code setting function Display OFF mode Accumulated value hold function	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	2-screen display Display rotates 90° and can be reversed Reference condition Accumulated value hold function	Flow adjustment valve integrable (200 L) Panel mounting possible (200 L) DIN rail mountable (200 L) Selectable flow rate display unit Responses time setting function → All renewed Secret code setting function Power saving mode Accumulated flow display function
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PFMC7	PF3W-Z	PF3W-L	PF3W7	LFE□
Dry air, N ₂	Water, ethylene glycol aqueous solution		Water, deionized water, chemicals	Water, water-soluble coolant
5 to 500 L/min 10 to 1000 L/min 20 to 2000 L/min	0.5 to 4 L/min 2 to 16 L/min 5 to 40 L/min 10 to 100 L/min	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	0.5 to 20 L/min 2.5 to 100 L/min 5 to 200 L/min
12 to 24 VDC ±10%	12 to 24 VDC ±10% 18 to 30 VDC ±10%*1 *1 When used as an IO-Link device	12 to 24 VDC ±10%	12 to 24 VDC ±10%	24 VDC ±10%
±2% F.S. (15 to 35°C) ±5% F.S. (0 to 50°C)		±5% F.S. (0 to 50°C)		±5% F.S.
±1% F.S. (Fluid: Dry air)		±2% F.S.		±2% F.S. (Displayed values) Analog output: ±1.5% F.S.
Hysteresis mode: Variable Window comparator mode: Variable			Variable	
NPN/PNP open collector Accumulated pulse output Analog voltage output Analog current output	Analog voltage output Analog current output	NPN/PNP open collector Accumulated pulse output Analog voltage output Analog current output	NPN/PNP open collector Analog voltage output Analog current output	
3-color LCD display		3-color display		
		IP65		
Flow adjustment valve integrable Responses time setting function → All renewed Secret code setting function Power saving mode Accumulated flow display function	3-color/2-screen display Selection of display on sub screen Switching of flow direction Responses time setting function Secret code setting function Power saving mode Accumulated flow display function	IO-Link compatible 3-color/2-screen display Selection of display on sub screen Switching of flow direction Responses time setting function Secret code setting function Power saving mode Accumulated flow display function		3-color/2-screen display Selection of display on sub screen Switching of flow direction Responses time setting function Secret code setting function Power saving mode Accumulated flow display function
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Series Variations

Model Selection Table

		Remote Type					
Model	Sensor unit	Monitor unit	Sensor unit	Monitor unit	Sensor unit	Monitor unit	Monitor unit
PFM5			PFMV5			PF2A5	
Fluid	Dry air, N ₂ , Ar, CO ₂		Dry air, N ₂		Air, N ₂		
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		-3 to 3 L/min -1 to 1 L/min -0.5 to 0.5 L/min 0 to 0.5 L/min 0 to 1 L/min 0 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%		12 to 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	±1% F.S. (Fluid: Dry air) Analog output: ±5% F.S.	±0.1% F.S. (Fluid: Dry air) Analog output: ±0.5% F.S.	±2% F.S. (Fluid: Dry air) Analog output: ±5% F.S.	±0.1% F.S. (Fluid: Dry air) Analog output: ±0.3% F.S.	±1% F.S. (Connected with PF2A3) ±2% F.S. (Connected with PF2A2)	±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*) *1 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 (Analog voltage output only)	Selectable flow rate display unit Accumulated flow display function	
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Sensor unit	Monitor unit	Sensor unit	Sensor unit	Monitor unit	Sensor unit	Monitor unit	PFG300		
PF3W5-Z 	PF3W5 	PF3W3 	PF3W5 PVC piping type	LFE□ 	LFE0 	PF2D5 	PF2D3 	PF2D2 	PFG300
Water, ethylene glycol aqueous solution	Water, deionized water, chemicals	Water, water-soluble coolant	Deionized water fluids that dose not corrode or osmose Super PFA.	1 input	1 input	1 input	1 input		
Push-button calibration					Push-button calibration	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	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	0.5 to 20 L/min 2.5 to 100 L/min 5 to 200 L/min			0.4 to 4 L/min 1.8 to 20 L/min 4 to 40 L/min			
12 to 24 VDC ±10%			24 VDC ±10%			12 to 24 VDC ±10%			
±5% F.S. (0 to 50°C)	±0.5% F.S. (0 to 50°C)	±5% F.S. (0 to 50°C)	±5% F.S.		±5% 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)		
±2% F.S.	±0.5% F.S.	±2% F.S.	±1.5% F.S.	±0.5% F.S.	±1% F.S.	±0.5% F.S.	±0.1% F.S. ±1 digit		
	Variable		Variable			Hysteresis mode: Variable Window comparator mode: Fixed (3 digits*) *1 Digit is min. calibration unit.	Variable		
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 Analog voltage output Analog current output	Analog voltage output Analog current output	NPN/PNP open collector Accumulated pulse output	NPN/PNP open collector Analog voltage output Analog current output		
	3-color display			3-color display		1-color display	2-color display		
IP65	Front only: IP65 The rest: IP40	IP65	IP65	Front only: IP65 The rest: IP40	IP65	IP40	IP40		
Temperature sensor and flow adjustment valve integrable Flow indicator	3-step setting Copy function 3-color/ 2-screen display		Flow indicator		3-color/ 2-screen display	Selectable flow rate display unit Accumulated flow display function			
					Connectable with 4 ch monitor (Analog voltage output only)				
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