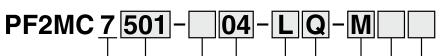
♦ IO-Link 3-Color Display 3-Screen Display Digital Flow Switch PF2NC7-L Series RoHS







Integrated display

Rated flow range

501	5 to 500 L/min
102	10 to 1000 L/min
202	20 to 2000 L/min

Thread type •

Nil	Rc	
N	NPT	
F	G*1	

*1 ISO 228 compliant

Port size

Cumbal	Port	Rated flow range		
Symbol	size	501	102	202
04	1/2	•	•	_
06	3/4	_	_	•

Output specification

		<u></u>		
Symbol	OUT1	OUT2*2	Applicable monitor unit model	
L	IO-Link/ Switch output (N/P)	_	_	
L2	IO-Link/ Switch output (N/P)	Switch output (N/P) ⇔ External input*4	_	
L3	IO-Link/ Switch output (N/P)	Analog voltage output*3	PFG300 series	
L4	IO-Link/ Switch output (N/P)	Analog current output	PFG310 series	

- *2 Switch output (analog output) or external input can be selected by pressing the buttons.
 - Switch output (analog output) is set as default setting.
 - Output symbol "L" cannot be used as the OUT2 terminal is not connected.
- 1 to 5 V or 0 to 10 V can be selected by pressing the button. The default setting is 1 to 5 V.
- Can be selected from accumulated value external reset or peak/ bottom value reset

Calibration certificate

Nil	None	
A *9	Yes	

*9 Made to order The certificate is in both English and Japanese.

Option 2

Nil	No bracket
R	With bracket*8

*8 Options are shipped together with the product but do not come assembled.

Unit specification

Nil	Unit selection function*6
M	SI unit only*7

- *6 This product is for overseas use only. (The SI unit type is provided for use in Japan in accordance with the New Measurement Act.)
- *7 Fixed units: Instantaneous flow: L/min, Accumulated flow: L

Option 1

Nil	With lead wire with M8 connector (3 m)*5
N	None
Q	With M12-M8 conversion lead wire (0.1 m)*5

*5 Options are shipped together with the product but do not come assembled.

Options/Part Nos.

When only optional parts are required, order with the part numbers listed below.

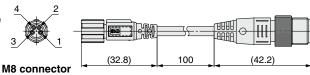
Part no.	Description	Note	
ZS-40-A	Lead wire with M8 connector	Length: 3 m	
ZS-42-A	Bracket	Mounting screw for PF2MC7501/7102(-L) (M3 x 5, 2 pcs.)	
ZS-42-B Bracket		Mounting screw for PF2MC7202(-L) (M3 x 5, 2 pcs.)	
ZS-40-M12M8-A	M12-M8 conversion lead wire	Length: 0.1 m	

ZS-40-M12M8-A

M12-M8 conversion lead wire

* The lead wire with an M8 connector and the M12-M8 conversion lead wire are interchangeable with those for the existing PFMC series.







M8 (Female) M12 (Male) Brown Blue 3 Black Wiring diagram

M12 connector

^{*} For wiring, refer to the Operation Manual on the SMC website, https://www.smcworld.com

PF2MC7(-L) Series

Specifications

For flow switch precautions and specific product precautions, refer to the "Operation Manual" on the SMC website.



	Model		PF2MC7501	PF2MC7102	PF2MC7202	
	Applicable fluid		Dry air, N2			
Fluid			(Air quality grade	e is JIS 8392-1 1.1.2 to 1.6.2, ISO 8573	-1 1.1.2 to 1.6.2.)	
	Fluid temperature range		0 to 50°C			
	Detection method Rated flow range		5 to 500 L/min	Thermal type 10 to 1000 L/min	20 to 2000 L/min	
		Instantaneous flow	5 to 500 L/min	10 to 1050 L/min	20 to 2000 L/min	
		Accumulated flow	0 10 020 2711111	0 to 999,999,990 L	20 to 2100 211111	
Flow	Smallest settable	Instantaneous flow		1 L/min		
	increment	Accumulated flow		10 L		
		olume per pulse	1 L/pulse 10 L/pulse			
	(Pulse width = 50 ms) Accumulated value hold function *1					
			Intervals of 2 or 5 minutes can be selected.			
	Proof pressure Pressure Pressure loss			0 to 0.8 MPa 1.2 MPa		
Pressure			Refer to the "Pressure Loss" graph.			
	Pressure cha	racteristics *2	ŭ i			
	Power	When used as a	12	to 24 VDC ±10%, Ripple (p-p) 10% or l	000	
	supply	switch output device	12	to 24 VDC ±10%, hippie (p-p) 10% of 1		
Electrical	voltage	When used as an		18 to 30 VDC ±10%		
		IO-Link device		,		
	Protection	sumption		55 mA or less Polarity protection		
	Display acci	uracv		±3% F.S.		
		ut accuracy		±3% F.S.		
Accuracy	Repeatabilit	у	±1% F.S. ((±2% F.S. when the response time is se	et to 0.05 s)	
	Temperature of	characteristics		±5% F.S. (0 to 50°C, 25°C standard)		
	Output type			ect from NPN or PNP open collector ou		
	Output mod	е		Hysteresis, Window comparator, Accum		
	Switch oper	otion		ulse output, Error output, or Switch output Select from Normal or Reversed output		
	Max. load cu			80 mA	•	
Switch output	Max. applied		28 V (NPN output)			
•	Internal voltage drop		1.5 V or less (at load current of 80 mA)			
	Digital filter		Select from 0.05 s, 0.1 s, 0.5 s, 1.0 s, 2.0 s, or 5.0 s.			
	Delay time *4 Hysteresis *5		Variable from 0 to 60 s/0.01 s increments			
			Variable from 0			
	Protection		Short circuit protection Voltage output: 1 to 5 V (0 to 10 V can be selected, only when the power supply voltage is 24 VDC)*7,			
	Output type		Current output: 4 to 20 mA			
Analog output *6		Voltage output	Output impedance: Approx. 1 kΩ			
σ.	Impedance	Current output	Max. load impedance: 600 Ω at power supply voltage of 24 V, 300 Ω at power supply voltage of 12 V			
	Response ti		Linked to the set value of the digital filter			
External input *9	External input		Input voltage: 0.4 V or less (Reed or Solid state) for 30 ms or longer			
	Input mode Reference condition *10		Accumulated value external reset, Peak/Bottom value reset Select from Standard condition (STD) or Normal condition (NOR).			
	Instantaneous flow					
		Accumulated flow		L, ft ³		
			-25 to 525 L/min	-50 to 1050 L/min	-100 to 2100 L/min	
	Display range	Instantaneous flow	(Displays [0] when value is within the -4 to 4 L/min range)	(Displays [0] when value is within the -9 to 9 L/min range)	(Displays [0] when value is within the -19 to 19 L/min range)	
	range	Accumulated flow		0 to 999,999,999 L		
Display		Instantaneous flow				
	unit Accumulated flow		10 L LCD			
	Display type	•	LCD LCD, 3-screen display (Main screen/Sub screen)			
			Main screen: Red/Green, Sub screen: White			
	Display		Main screen: New Green, Sub screen: Write Main screen: 4 digits, 7 segments, Sub screen: 9 digits, 11 segments			
			Display values updated 5 times per second			
	Indicator LE	D	LED ON when switch output is ON (OUT1/OUT2: Orange)			
	Enclosure		IP65			
Environmental	Withstand voltage		250 VAC for 1 min between external terminals and housing 2 MΩ or more (50 VDC measured via megohmmeter) between external terminals and housing			
resistance	Insulation resistance		, , ,			
	Operating temperature range Operating humidity range					
Standards	peracing numbers range		CE/UKCA marking, UL (CSA)			
Piping specification	on		Rc1/2, NP	T1/2, G1/2	Rc3/4, NPT3/4, G3/4	
Main materials of	parts in conta	act with fluid	Stainless st	eel 304, PPS, Aluminum alloy, HNBR, S	Si, Au, GE4F	
	Dining	Rc thread	16	0 g	240 g	
Wainh*	Piping specification			•	9	
		NPT thread	17	0 ~	045	
Weight	specification	G thread	17	0 g +80 a	245 g	
Weight		า 🗕		0 g +80 g 5 g	245 g +30 g	