

FEATURES & BENEFITS

- Flow ratio 100:1
- Digital display of flow rate
- Compact and space saving
- IP65
- Accumulated total display
- Min/Max value display



- Display rotates for easy viewing
- Tri-colour display
- IO-Link option

PRODUCT CONFIGURATION



- 1 MATERIAL
 - Aluminium body IP65 housing
- 2 OPERATING FLUID TEMPERATURE

¹ 2% F.S (15 to 35°C) ¹ 5% F.S (0 to 50°C)

3 FLUID

Dry air, N2

4 RATED FLOW RANGE

5 to 500 l/min 10 to 1,000 l/min 20 to 2,000 l/min

5 FUNCTIONS

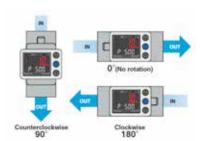
6 RATED PRESSURE RANGE 0 to 8 Bar

- 7 SETTING
 Digital
- 8 POWER SUPPLY VOLTAGE 12 to 24 V DC±10%
- 9 OUTPUT

NPN/PNP open collector for Alarm or pulse output Analogue voltage or current output Optional IO-Link

10 REPEATABILITY

 $\pm 3\%$ F.S. - Fluid: Dry and air



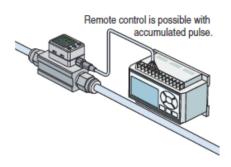
Output operation, display colour, reference condition, setting of response time, display mode, selection of display on sub screen, external input function, accumulated valve hold, forced output function, analogue output free range function, selection of display OFF mode, peak/bottom value display,keylock function,error display function,orientation correction function.

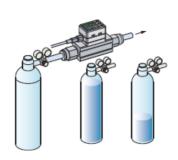
APPLICATIONS



Accumulated indication shows the operating flow rate or residual amount (of N2 etc) in a gas cylinder

Flow control of equipment Flow control of the air for spray painting







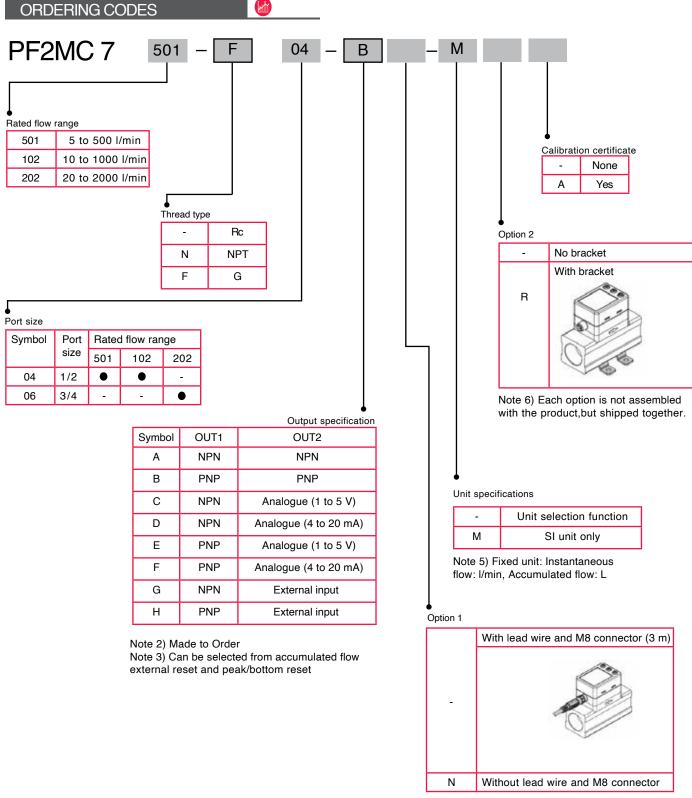


SPECIFICATIONS



Model			PF2MC7501	PF2MC7102	PF2MC7202
Applicable fluid			Dry air,N2		
Fluid			0 to 5000		
	Fluid temperature range Detection method		0 to 50°C Thermal type		
Flow	Rated flow range		5 to 500 L/Min	10 to 1000 L/Min	20 to 2000 L/Min
	Set point	Instantaneous flow	5 to 525 L/Min	10 to 1050 L/Min	20 to 2100 L/Min
	range	Accumulated flow		0 to 999,999,990 L	
	Smallest settable	Instantaneous flow	1 L/Min		
	increment Accumulated flow		10 L		
	Accumulated volume per pulse (Pulse width =50 ms)		1 L/pulse 10 L/pulse		oulse
	Accumulated value hold function		Intervals of 2 mins or 5 mins can be selected.		
Pressure	Rated pressure range		0 to 0.8 MPa		
	Proof pressure		1.2 MPa Refer to "Pressure Loss" graph.		
	Pressure loss Pressure characteristics		±5% F.S.(0 to 0.8 MPa,0.6 MPa standard)		
Electrical			12 to 24 VDC±10%		
	Power supply voltage		Ripple (p-p) 10% or less		
	Current consumption		55 mA or less		
	Protection Display accuracy		Polarity protection ±3% F.S.		
Accuracy	Analog outpu		±3% F.S. ±3% F.S.		
	Repeatability		±1% F.S.(±2% F.S.when response time is set to 0.05 s)		
	Temperature characteristics		±5% F.S.(0 to 50°C,25°C standard)		
Switch output	Output type		NPN open collector PNP open collector		
			Select from Hysteresis, Window comparator, Accumulated output or Accumulated pulse output		
	Output mode		modes.		
	Switch operation		Select from Normal or Reversed output.		
	Max.load current Max.applied voltage (NPN only)		80 mA 28 VDC		
	Internal voltage drop		NPN output type:1 V or less (at load current of 80 mA)		
	(Residual voltage)		PNP output type:1.5 V or less (at load current of 80 mA)		
	Response time *3		Select from 0.05 s,0.1 s,0.5 s,1 s,or 2 s		
	Hysteresis *4		Variable from 0		
	Protection Output type		Short circuit protection Voltage output:1 to 5 V,Current output:4 to 20 mA		
Analog output *5	Voltage output		Output impedance:Approx.1 kW		
	Impedance Current output		Maximum load impedance at power supply voltage of 24 V:600 W,		
			at power supply voltage of 12 V:300 W		
	Response time		Minimum load impedance:50 W Linked with the response time of the switch output.		
Fortament in a st *7	External input		Input voltage:0.4 V or less (Reed or Solid state) for 30 ms or longer		
External input *7	Input mode		Accumulated value external reset,Peak/Bottom value reset		
Display	Reference condition		Select from Standard condition or Normal condition.		
	Unit *9 Instantaneous flow Accumulated flow		L/Min, CFM L, CF		
		Accumulated now	05 1 505 1 44	,	100 1 0100 1 (14)
	Display range	Instantaneous flow	-25 to 525 L/Min (Displays [0] when value is within -4 to 4 L/min range.)	9 L/min range.)	-100 to 2100 L/Min (Displays [0] when value is within -19 to 19 L/min range.)
		Accumulated flow	0 to 999,999,999 L		
	Minimum display unit	Instantaneous flow Accumulated flow	1 L/Min 10 L		
	7 todamated now		LCD,2-screen display (Main screen/Sub screen)		
	Display		Main screen: Red/Green, Sub screen: White Main screen:4 digits,7 segments,Sub screen:6 digits,11 segments		
	Indicator LED		LED ON when switch output is ON. (OUT1/OUT2: Orange)		
Environment	Enclosure		IP65		
	Withstand voltage		250 VAC for 1 min between terminals and housing		
	Insulation resistance Operating temperature range		2 MW or more (50 VDC measured via mega ohmmeter) between terminals and housing Operating:0 to 50°C, Stored:–10 to 60°C(No condensation or freezing)		
	Operating humidity range		Operating/Stored:35 to 85% RH (No condensation or freezing)		
Standards			CE, UL (CSA), RoHS		
Piping specification Materials of parts in contact with fluid			Rc1/2,NPT1/2,G1/2 Rc3/4,NPT3/4,G3/4		
waterials of parts	Do throad		Stainless steel 304, PPS, Aluminium alloy, HNBR, Si, Au, GE4F		
Weight	Piping specification	NPT thread		160 g	240 g
		G thread		170 g +80 g	245 g
	Lead wire Bracket			+80 g +25 g	+30 g
					- 5





Note 4) Each option is not assembled with the product, but shipped together.