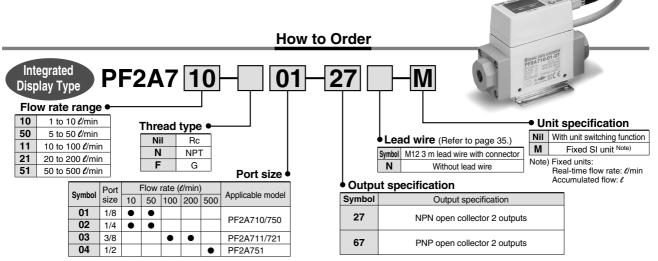
## For Air **Digital Flow Switch** Series PF2A Refer to www.smcworld.com for details of products compatible with overseas standa





## **Specifications**

Мс	Model		PF2A710	PF2A750	PF2A711	PF2A721	PF2A751	
Measured fluid			Air, Nitrogen					
Flo	Flow rate measurement range		0.5 to 10.5 ℓ/min	2.5 to 52.5 <i>t</i> /min	5 to 105 ℓ/min	10 to 210 e/min	25 to 525 ℓ/min	
Set flow rate range		0.5 to 10.5 ℓ/min	2.5 to 52.5 @min	5 to 105 ℓ/min	10 to 210 e/min	25 to 525 ℓ/min		
Rated flow range			1 to 10 <i>l</i> /min	5 to 50 ℓ/min	10 to 100 ℓ/min	20 to 200 ℓ/min	50 to 500 ℓ/min	
Mi	Minimum set unit		0.1 <i>e</i> /min	0.5 ℓ/min	1 ℓ/min	2	5 ℓ/min	
Accu	Accumulated pulse flow rate exchange value (Pulse width: 50 ms)		0.1 <i>ℓ</i> /pulse	0.5 <i>ℓ</i> /pulse	1 d/pulse	2 d/pulse	5 ℓ/pulse	
	Note 1, 2) Play units Real-time flow rate Accumulated flow		ℓ/min, CFM x 10 <sup>-2</sup> ℓ/min, CFM x 10 <sup>-1</sup>					
			ℓ, ft³ x 10 <sup>-1</sup>					
Operating fluid temperature			0 to 50°C					
Linearity			±5% F.S. or less					
Repeatability			$\pm 1\%$ F.S. or less $\pm 2\%$ F.S. or less					
Temperature characteristics			±3% F.S. or less (15 to 35°C, based on 25°C), ±5% F.S. or less (0 to 50°C, based on 25°C)					
	Current consumption (No load)		150 mA or less		160 mA or less		170 mA or less	
	Weight Note 3)		25	0 g		290 g		
Port size (Rc, NPT, G)			1/8, 1/4 3/8			1/2		
Detection type			Heater type					
Indicator light			3-digit, 7-segment LED					
Operating pressure range			-50 kPa to 0.5 MPa -50 kPa to 0.75 MPa					
Proof pressure			1.0 MPa					
Accumulated flow range Note 4)			0 to 999999 ℓ					
Output Note 5)	Switch output		NPN open collector Maximum load current: 80 mA; Internal voltage drop: 1 V or less (with load current of 80 mA) Maximum applied voltage: 30 V; 2 outputs					
Itput ecifica			PNP open collector Maximum load current: 80 mA Internal voltage drop: 1.5 V or less (with load current of 80 mA); 2 outputs					
ဝီဒ	Accumula	ated pulse output	NPN or PNP open collector (same as switch output)					
Status LED's			Illuminates up when output is ON OUT1: Green; OUT2: Red					
Response time			1 sec. or less					
Hysteresis			Hysteresis mode: Variable (can be set from 0), Window comparator mode Note 6): 3-digit fixed					
	Power supply voltage		12 to 24 VDC (ripple ±10% or less)					
I	Enclosure		IP65					
o   C	Operating temperature range		Operating: 0 to 50°C, Stored: -25 to 85°C (with no freezing and condensation)					
5 7	Withstand voltage		1000 VAC for 1 min. between external terminal and case					
(∩ ⊢	Insulation resistance		50M $\Omega$ or more (500 VDC Mega) between external terminal and case.					
4	Vibration resistance		10 to 500 Hz with a 1.5 mm amplitude or 98 m/s <sup>2</sup> acceleration, in each X, Y, Z direction for 2 hrs, whichever is smaller. (de-energized)					
	mpact resist		490 m/s² in X, Y, Z directions 3 times each					
1	Noise resista	ance	1000 Vp-p, Pulse width 1 μs, Rise time 1 ns					

Note 1) For digital flow switch with unit switching function. (Fixed SI unit [(e/min, or \ell, m³ or m³ x 10³)] will be set for switch type without the unit switching function.) Note 2) Flow rate display can be switched between the basic condition of 0°C, 101.3 kPa and the standard condition (ANR) of 20°C, 101.3 kPa, and 65% RH.

Note 4) Accumulated flow rate is reset when the power supply turns OFF. Note 5) Switch output and accumulated pulse output can be selected during initial setting.

Note 6) Window comparator mode — Since hysteresis will reach 3 digits, keep P\_1 and P\_2 or n\_1 and n\_2 apart by 7 digits or more. (In case of output OUT2, n\_1, 2 to be n\_3, 4 and P\_1, 2 to be P\_3, 4.) Note 7) The flow switch conforms to the CE mark.