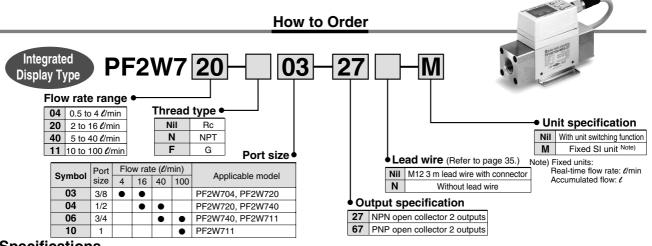
## For Water **Digital Flow Switch** Series PF2W Refer to www.smcworld.com for details of products compatible with overseas standards.



## **Specifications**

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Model			PF2W704	PF2W720	PF2W740	PF2W711
Measured fluid		id	Water			
Flow rate measurement range		asurement range	0.35 to 4.5 ℓ/min	1.7 to 17.0 ℓ/min	3.5 to 45 ℓ/min	7 to 110 ℓ/min
Set flow rate range			0.35 to 4.5 ℓ/min	1.7 to 17.0 ℓ/min	3.5 to 45 ℓ/min	7 to 110 ℓ/min
Rated flow range		nge	0.5 to 4 ℓ/min	2 to 16 <i>l</i> /min	5 to 40 ℓ/min	10 to 100 ℓ/min
Minimum set unit		unit	0.05 <b>ℓ</b> /min	0.1 <i>ℓ</i> /min	0.5 <b>ℓ</b> /min	1 <i>€</i> /min
Accumulated pulse flow rate exchange value (Pulse width: 50 ms)		e exchange value (Pulse width: 50 ms)	0.05 <i>ℓ</i> /pulse	0.1 ℓ/pulse	0.5 ℓ/pulse	1 ℓ/pulse
Operating fluid temperature		id temperature	0 to 50°C			
Linearity			±5% F.S. or less			±3% F.S. or less
Repeatability			±3% F.S. or less			±2% F.S. or less
Temperature characteristics Note 1)		characteristics Note 1)	±5% F.S. or less (0 to 50°C, based on 25°C)			
Current consumption (No load)		umption (No load)	70 mA or less			80 mA or less
We	Weight Note 2)		460 g	520 g	700 g	1150 g
Ро	rt size (Rc,	NPT, G)	3/8	3/8, 1/2	1/2, 3/4	3/4, 1
Detection type		е	Karman vortex			
Indicator light		t	3-digit, 7-segment LED			
D:	Note 3) Real-time flow rate		ℓ/min, gal(US)/min			
Display units Accumulated flow		Accumulated now	ℓ, gal(US)			
Operating pressure range			0 to 1 MPa			
Proof pressure			1.5 MPa			
Accumulated flow range Note 4)			0 to 999999 ℓ			
Ambient temperature range		perature range	Operating: 0 to 50°C, Stored: –25 to 85°C (with no freezing and condensation)			
Ou	tput Note 5) ecifications	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			
spe		Accumulated pulse output	PNP open collector: Maximum load current: 80 mA; Internal voltage drop: 1.5 V or less (with load current of 8 NPN or PNP open collector (same as switch output)			80 mA); 2 outputs
Status LED's		Accumulated pulse output	Illuminates 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		voltage	12 to 24 VDC (ripple ±10% or less)			
	Enclosure		IP65			
4	Operating temperature range					
Š	Withstand voltage		1000 VAC for 1 min. between external terminal and case			
sta	Insulation resistance		50M Ω or more (500 VDC Mega) between external terminal and case			
Resistance	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.			
<u>«</u>	Impact resistance		490 m/s <sup>2</sup> in X, Y, Z directions 3 times each			
	Noise resistance		1000 Vp-p, Pulse width 1 µs, Rise time 1 ns			
			lose (45°C to 35°C based on 35°C). Note 3) Without load wire			

Note 1) In the case of PF2W711, ±3% of F.S. or less (15°C to 35°C, based on 25°C). Note 2) Without lead wire.

Note 3) For digital flow switch with unit switching function. (Fixed SI unit [//min or // will be set for switch type without the unit switching function.)

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 P\_2 or n\_1 and P\_2 or meters and P\_2 or

