

Paddle Wheel Flow Transmitter

Feature:

- Water-proof IP68 enclosure, SUS and chemical resistant body
- Low power consumption , new stable & high resolution rotor , bi - direction.
- Easy maintains, easy operation , connect to PLC / IPC directly



Application:

- Heat exchanger & chilling system
- Water treatment & regeneration & circulation
- Dairy and beverage process CIP, process and chemicals monitoring .

Technical Specification :

Sensor type	:	Hall effect element(bi-direction)
Input	:	Liquid
Measuring range	:	0.3 ~ 6m/s
Output	:	Square wave frequency NPN output
Accuracy	:	±0.5% FS (K factor calibrated)@V≥0.5 m/s
Repeatability	:	± 0.5 % F.S.
Media temperature	:	CPVC body – Up to 85°C PTFE & SUS316L body – Up to 100°C
Operating pressure	:	Plastic piping system – Max. 10 bar @ 20°C water Metal piping system – Max. 16 bar
Power supply	:	<10µA @ 5V DC or 12~30V DC connect to PLC/IPC directly
Material	:	Body – CPVC, PTFE, SUS316L 6 Blade – ECTFE(Halar) Bearing & Shaft – H.D. Ceramic Oring – EPDM, Viton, Viton coating PTFE
Cable length	:	10 M(L);
Option	:	Max. 150M(L)
Electrical connection	:	PVC insulated 3wire AWG #22 isolated cable (Max. up to 150M) M12 x 4 Pins female cable, IP68 enclosure Plastic / AL alloy / SUS316 industrial terminal box
Installed fitting	:	Weld-on: SUS316/CS/PVC/PP/CPVC/PVDF Metal Tee Fitting (threaded female): SUS 316 /CS (PT/NPT) Plastic Tee Fitting: PVC / CPVC Socket welding/Flange type
Certification	:	CE ; IEC61000

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⚙️ PIPE SIZE VS. FLOW RATE :

Size	Min. Flow* M ³ /Hr @0.5m/s	Max. Flow* M ³ /Hr @6.0m/s
1/2"	0.32	3.82
3/4"	0.56	6.78
1"	0.88	10.6
1-1/4"	1.44	17.4
1-1/2"	2.26	27.1
2"	3.54	42.4
2-1/2"	5.98	71.4
3"	9.04	108.6
4"	14.1	169.8
5"	22.1	265.2
6"	31.8	381.6
8"	56.6	678.6
10"	88.4	1060.2
12"	127.2	1527.1
14"	173.2	2078.4
16"	226.1	2714.4

Accuracy : The recommend operating value within $\pm 0.5\%$ F.S.



SUS316L/PTFE/CPVC Sensor



Sensor with terminal box

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HOW TO ORDER

<p>⚙️ Basic Model :</p>		PWF
----- ⚙️		
<p>⚙️ Power Supply :</p>		5
0	12~30 VDC	5 5 VDC
----- ⚙️		
<p>⚙️ Sensor body :</p>		C
C	CPVC	P PTFE S SUS316L
----- ⚙️		
<p>⚙️ O ring :</p>		V
E	EPDM	V Viton P Viton coating PTFE
----- ⚙️		
<p>⚙️ Sensor size (According to the installed fitting) :</p>		L
S	Short	L Long
----- ⚙️		
<p>⚙️ Operating condition option, with the SUS sensor cap :</p>		Y
(Fluid temp. > 80℃ or Working Pressure > 6 bar)		
N	No	Y Yes
----- ⚙️		
<p>⚙️ Electronic wiring :</p>		NNN
NNN	M12/4Pin connector 010~150 : 3 wires isolated cable (10M ~ 150M)	
XXX	Compact version with F1 series	
TBP	With plastic terminal box	
TBA	With Aluminum alloy terminal box	
TBS	With SUS316 terminal box	
----- ⚙️		

Ordering Example:
PWF - 5 - C - V - Y - NNN