For Deionized Water and Chemicals Digital Flow Switch Series PF2D

How to Order

Remote Type Sensor Unit PF2D5 20 13 1 C

04 0.4 to 4 *l*/min 20 1.8 to 20 *l*/min 40 4 to 40 *l*/min

Output specification

Specification

Output for display unit

Output for display unit + analog output (1 to 5 V)

Output for display unit + analog output (4 to 20 mA)

Symbol

Nil

The cable and connector are shipped unassembled.

Applicable display unit (monitor) model

Series PF2D300

Series PF2D200/300

Series PF2D300

11	3/8	PF2D504	
13	1/2	PF2D520	
19	3/4	PF2D540	
		•	

Port size: (inch) ♦

Specifications for Sensor Unit

Model			DE0D504	DEODEOO	DE0D540	
			PF2D504	PF2D520	PF2D540	
Measured fluid			Liquid not to corrode nor erode deionized water and/or Teflon®. Viscosity: 3mPa·s (3cP) or less			
Detection style			Karman vortex			
Rated flow range			0.4 to 4 <i>e</i> /min	1.8 to 20 ℓ/min Note 1)	4 to 40 ℓ/min	
Operating pressure range Note 2)		-	0 to 1 MPa		0 to 0.6 MPa	
Proof pressure Note 3)			1.5 MPa 0.9 MPa			
Operating fluid temperature		temperature	0 to 90°C			
Linearity Note 4)			±2.5% F.S. or less (at 25°C water)			
Repeatability			±1% F.S. or less (at 25°C water)			
Temperature characteristics		naracteristics	±5% F.S. or less (0 to 50°C, based on 25°C)			
Output specifications		Pulse output	Pulse output, N channel, open drain, output for display unit PF2D 300/301			
			(Specifications: Maximum load current of 10 mA; Maximum applied voltage of 30 V)			
			Voltage output Note 5) 1 to 5 V			
		Analog	Linearity: ±2% F.S. or less, allowable load resistance: 100 kΩ or more			
		output	Current output Note 6) 4 to 20 mA			
			Linearity: $\pm 2\%$ F.S.or less, allowable load resistance: 300 Ω or less with 12 VDC, 600 Ω or less with 24 VDC			
Power supply voltage		oltage	12 to 24 VDC (ripple ±10% or less)			
Current consumption		nption	20 mA or less (without load)			
Enclosure Operating temperature range Voltage resistance Insulation resistance Vibration resistance Impact resistance		9	IP65			
		emperature range	Operating: 0 to 50°C, Stored: –25 to 85°C in stock (with no condensation and freezing)		densation and freezing)	
		esistance	1000 VAC for 1 min. between external terminals and case			
		resistance	50M Ω or more (500 VDC Mega) between external terminals and case			
		resistance	4.9 m/s ²			
		sistance	490 m/s ² to X,Y,Z directions 3 times for each			
	Noise resistance		1000 Vp-p, Pulse width: 1 μs, Rise time: 1 ns			
Weight			140 g (without lead wire)		225 g (without lead wire)	
Port size			3/8 inch tube	1/2 inch tube	3/4 inch tube	
Wetted material		ı	Body: New PFA, Sensor: New PFA, Tube: Super PFA			
trottod material			body. New 1174, Goldson. New 1174, Tube. Gupel 1174			

Note 1) 1.6 to 20 //min (0.1 MPa) with viscosity of 1 mPa·s (1 cP) or less

Note 2) The operating pressure range drops according to the fluid temperature. See attached graph.

Note 3) 1.5 times of the maximum operating pressure and varying with fluid temperature.

Note 4) The system accuracy when combined with PF2D30□.

Note 5) When the voltage output is selected.

Note 6) When the current output is selected.

Note 7) The sensor unit conforms to the CE mark.



