FLOW SENSOR WITH INTEGRAL FLOW TRANSMITTER SDI SERIES

DESCRIPTION

The SDI Series Flow Sensor with Integral Flow Transmitter is Data Industrial's latest product in their dependable line of flow meters for liquids. The direct insertion models are available in either brass or stainless steel material and can be installed or removed in piping systems that are not pressurized. The hot tap stainless steel models include an isolation valve and mounting hardware that enables flow meter installation and removal while the piping system is pressurized; system shutdown is unnecessary. Hot tap stainless steel models are also available for bidirectional flow measurement.

The four-blade impeller is rugged and non-fouling and requires no custom calibration. The SDI Series is available with a frequency output, analog output, and scaled-pulse output. The display is optional. Stainless steel models are available with a PEEK (polyether ether ketone) tip for high (up to 300°F) fluid temperatures, or a PPS (polyphenylene sulfide) tip for more moderate fluid temperatures.

FEATURES

- · Direct insertion or hot tap installation
- Fits pipe sizes 1.5" to 36"+ (3.8 to 91+ cm)
- · Mounts in 1" NPT tap, weld-on or pipe saddle
- · 1% accuracy
- · Low pressure drop
- · Optional 8 character 3/8" (0.95 cm) LCD
- · NEMA 4X enclosure standard
- · Bidirectional models available
- · Field programmable with optional software

	:IFI		

Operating voltage **Output impedance**

750Ω @ 24 VDC **Accuracy** ±1% of flow rate

Maximum pressure

Brass

Stainless steel

1000 psig (6895 kPa) 600 psig (4137 kPa)

8-35 VDC, 25 mA

Maximum fluid temp 300°F (149°C) (PEEK tip) 180°F (82°C) (PPS tip)

Design flow range

Ambient temp range 14° to 150°F (20° to 65°C) 0.3 to 20 fps (0.09 to 6.1 mps)

Display

One-line eight-character 3/8"

(0.95 cm) LCD

Pressure drop 0.5 psig (3.45 kPa) or less NEMA 4X, polypropylene with **Enclosure** Viton-sealed acrylic cover

Electrical connection Screw terminals with 1/2" (1.27 cm) conduit connection

O-Ring Viton (standard)

Tungsten carbide (standard) **Shaft** Impeller Stainless steel (standard)

Bearing Torlon (standard)

Warranty 1 year



ORDERING INFORMATION

MODEL SDI	DESCRIPTION Flow sensor with integral transmitter							
1	MATERIAL							
0D1N			inles	s steel insertion with PPS tip for 1.5" to 10" pipes				
	0D2N		Stainless steel insertion with PPS tip for 12"" to 36					
	0D3N							
	1D1N							
	1D2N	Brass insertion with PPS tip for 12" to 36" pipes						
	1D3N							
	2D1N	Stainless steel insertion with PEEK tip for 1.5" to 10" pipes						
	2D2N	Stainless steel insertion with PEEK tip for 12" to 36" pipes						
	2D3N	Stainless steel insertion with PEEK tip for 36"+ pipes						
	0H1N	Stainless steel hot tap with PPS tip for 1.5" to 10" pipes						
	0H2N	Stainless steel hot tap with PPS tip for 12" to 36" pipes						
	0H3N	Stainless steel hot tap with PPS tip for 36"+ pipes						
	2H1N	Stainless steel hot tap with PEEK tip for 1.5" to 10" pipes						
	2H2N							
	2H3N	Stainless steel hot tap with PEEK tip for 36"+ pipes						
		ΟL	JTPU					
		Standard frequency pulse						
		1	4-20 mA					
			2 Scaled pulse					
		5						
		6	Bidirectional, scaled pulse (hot tap, PPS tip only)					
			DISPLAY					
			0	No display				
			1	LCD option (not available with output option 0)				
				CONSTRUCTION				
				0200 Viton O-ring, Carbide shaft, stainless steel				
				impeller, Torlon bearing (std) 1200 EPDM O-ring, Carbide shaft, stainless stee				
				impeller, Torlon bearing				
				impelier, ronon bearing				
SDI	2D1N	1	1	0200 Example: SDI2D1N11200 Flow sensor with				
		ت	ت	integral transmitter, stainless steel				
				insertion with PEEK tip, 4-20 mA				

RELATED PRODUCTS

output, display, standard construction.

A-SDI Programming kit A-1027 Hot tap adapter nipple

8132030 Ball valve for hot tap installation (required)