

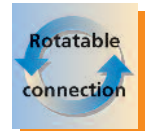


SV Series Vortex Flow Meter



Vortex in-line flow meter with digital display for water-based media

- Simultaneously monitors flow rate and fluid temperature
- Measures flow rate up to 26 gpm and temperature up to 194 °F
- Rotatable two-color TFT digital display for at-a-glance status
- Mounts in-line with rotatable process connections for quick installation
- Selectable outputs for switching, frequency and analog



Reliable vortex flow meter for water-based applications

ifm's new SV Series vortex flow meter is designed to simultaneously monitor flow rate and detect fluid temperature of circulating water in industrial applications.

Encased in a compact robust housing for harsh environments, the meter utilizes the vortex flow principle. Behind a blunt body (or shedder) integrated in a measuring pipe, the flowing medium generates swirling vortices depending on the velocity. A piezoceramic sensor detects these vortices. Since the cross-section of the pipe is known, the number of the vortices determines the flow rate, independent of the medium's pressure and temperature fluctuations. The vortex flow technology enables a simple sensor design that can be easily manufactured at a very low cost.

At-a-glance display and easy installation takes less than five minutes

The meter provides a high contrast TFT LCD digital display that can be customized to best suit the application. The setpoints are established through a simple pushbutton menu by using scroll and enter buttons. The meter can be programmed to provide switching output (flow rate and/or temperature), flow frequency, or analog output (flow rate or temperature).

The meter's NPT process connection is easy to mount in line and fits either ½ inch or ¾ inch piping.

With features that ensure reliability and convenience, ifm's compact SV Series Vortex flow meter offers an excellent price / performance value with a starting list price of \$275.00.



In welding applications, it is essential to control the flow rate and temperature of cooling water to prolong the life of the welding tip and to assure that the weld cools rapidly for optimum quality. The SV Vortex flow meter is an ideal solution.



SV Series Vortex Flow meters

Type	Measuring Range (Flow)	Measuring Range (Temperature)	Output 1	Output 2	Process Connection	Part No.
	0.3...5.3 gpm				1/2" NPT	SV4610
	0.6...10.5 gpm	14...194 °F	PNP/NPN switching or frequency (flow)	PNP/NPN switching or frequency (flow or temp)	1/2" NPT	SV5610
	1.3...26.3 gpm				3/4" NPT	SV7610
	0.3...5.3 gpm				1/2" NPT	SV4614
	0.6...10.5 gpm	14...194 °F	4...20 mA scalable analog (temp)	4...20 mA scalable analog (flow)	1/2" NPT	SV5614
	1.3...26.3 gpm				3/4" NPT	SV7614
	1...20 lpm				G 1/2 BSPP	SV4200
	2...40 lpm	-10...90 °C	PNP/NPN switching or frequency (flow)	PNP/NPN switching or frequency (flow or temp)	G 1/2 BSPP	SV5200
	5...100 lpm				G 3/4 BSPP	SV7200
	1...20 lpm				G 1/2 BSPP	SV4204
	2...40 lpm	-10...90 °C	4...20 mA scalable analog (temp)	4...20 mA scalable analog (flow)	G 1/2 BSPP	SV5204
	5...100 lpm				G 3/4 BSPP	SV7204

Configuration can be done via pushbuttons or IO-Link using ifm's LineRecorder Sensor. The software simplifies parameter setting and monitoring of flow meters.

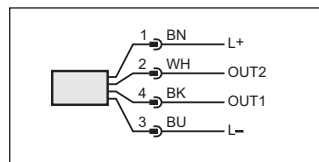
Optional Accessories

Type	Description	Part No.
	Mounting plate	E40249
	USB IO-Link master cable for parameter setting	E30396
	Memory plug, parameter memory for IO-Link sensors	E30398
	LINERECORDER SENSOR, software for parameter setting	QA0001

Technical Specs

Operating voltage:	18...30 V DC
Current consumption	typ. 25 (at 24 V) mA
Accuracy flow measurement	2 % of full range
Accuracy temperature monitoring	± 1.8 °F (1 °C)
Medium temperature	14...194 °F (-10...90 °C)
Protection rating	IP 65 / IP 67
Max. pressure	175 psi
Wetted parts	Stainless steel (316L / 1.4704), PC, PBT / PC-GF 30, PPS, TPE-U

Wiring diagram



Cordsets

Type	Description	Part No.
	M12 Micro DC, 2 m, PUR cable	EVC001
	M12 Micro DC, 5 m, PUR cable	EVC002
	M12 Micro DC, 2 m, PUR cable	EVC004
	M12 Micro DC, 5 m, PUR cable	EVC005

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