



Fluid Control Instrument Series



General Vortex Flowmeter

SV21

Product Technical Specification | July 2026

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Product Overview

The SV21 general vortex flowmeter is based on the Karman vortex shedding principle for measuring liquid, gas, and steam flow. The robust construction has no moving parts, ensuring long-term stability and reliability. With a 10:1 turndown ratio, standard medium temperature range of -40 to 250°C (extended to 350°C), and sizes from DN25 to DN500, it supports 4-20mA, pulse, HART, Modbus, and Profibus outputs. Ideal for petrochemical, power, metallurgy, water treatment, and heating applications.

- Karman Vortex
- Liquid/Gas/Steam
- 10:1 Turndown
- DN25-DN500
- Multi-Protocol

Key Features



Wide Application

Measures liquid, gas, and steam with minimal influence from fluid physical parameters.



Robust Construction

No moving parts; wear-resistant and contamination-resistant.



10:1 Turndown

Wide dynamic range with low pressure loss.



Multi-Protocol

4-20mA/pulse/HART/Modbus/Profibus options.



Wide Temperature

Standard -40 to 250°C; extended to 350°C.



High Protection

IP65/IP68 for harsh environments.

Technical Specifications

Parameter	Specification
Model	SV21
Principle	Karman vortex shedding
Media	Liquid, gas, steam
Accuracy	Liquid ±1.0%; Gas ±1.5%
Repeatability	Liquid ±0.33%; Gas ±0.5%
Reynolds Number	2x10^4 to 7x10^6
Medium Temperature	Standard -40 to 250°C; Extended -40 to 350°C
Turndown	10:1
Size Range	DN25 to DN500
Pressure	1.6/2.5/4.0 MPa / Other
Flow Velocity	Gas 5-70 m/s; Liquid 0.5-7 m/s
Wetted Material	304/316L SS
Flange Material	CS / 304 / 316L
Probe	316L SS
Support Rod	304 SS

Heat Sink	Aluminum alloy
Mounting	Wafer / Flanged
Protection	IP65 / IP68
Power	24VDC (18-30V) / Battery
Output	4-20mA / Digital pulse
Communication	HART / Modbus / Profibus
Electrical Connection	2xM20x1.5
Hazardous	Non-Ex / Intrinsically Safe / Ex-d
Construction	Compact / Remote
Ambient Temp.	With LCD -10 to 60°C; Without LCD -20 to 60°C
Relative Humidity	5% to 90%
Maintenance	No moving parts; maintenance-free mechanical operation

Typical Applications

- ▶ Petrochemical pipeline flow metering
- ▶ Power plant steam/cooling water measurement
- ▶ Metallurgy gas/liquid flow monitoring
- ▶ Water treatment and distribution network metering
- ▶ Heating system steam/hot water flow metering

Ordering Guide

Product Code	Description
SV21	Wafer/flanged sensor + transmitter (compact/remote)

Accessories/Consumables

Accessory	Specification	Note
Mating Flange	CS/304/316L	Standard
Mounting Bolts	Carbon steel	Standard
Ground Ring	-	Optional

Why Choose Jiuyuhub

**Application-First Matching**
Recommendations based on your operating conditions.

**Southeast Asia Adapted**
Optimized for tropical environments.

**One-Stop Supply**
Water quality + fluid control + flow measurement.

**24-Hour Response**
Fast response to inquiries.

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