

Please refer to page 5 for detailed selection

FV70-N

Vortex Flow Meter



Product Description

This series of vortex flow meters is a high-precision flow sensor based on the Von Karman vortices principle. When the fluid passes around the turbulence column, periodic double row vortices (Karman vortices) are formed, and the sensor accurately senses the vortex frequency through an internal chip to measure the liquid flow rate inside the pipeline. This sensor has excellent repeatability, high precision, low pressure loss, pollution resistance, and no movable parts, with a long service life.

Scope of application

This series of vortex flowmeter has a sturdy casing and compact structure, suitable for various indoor application scenarios such as harsh industrial production environments, energy metering, environmental protection, laboratory environments, and transportation, providing multifunctional sensing solutions.

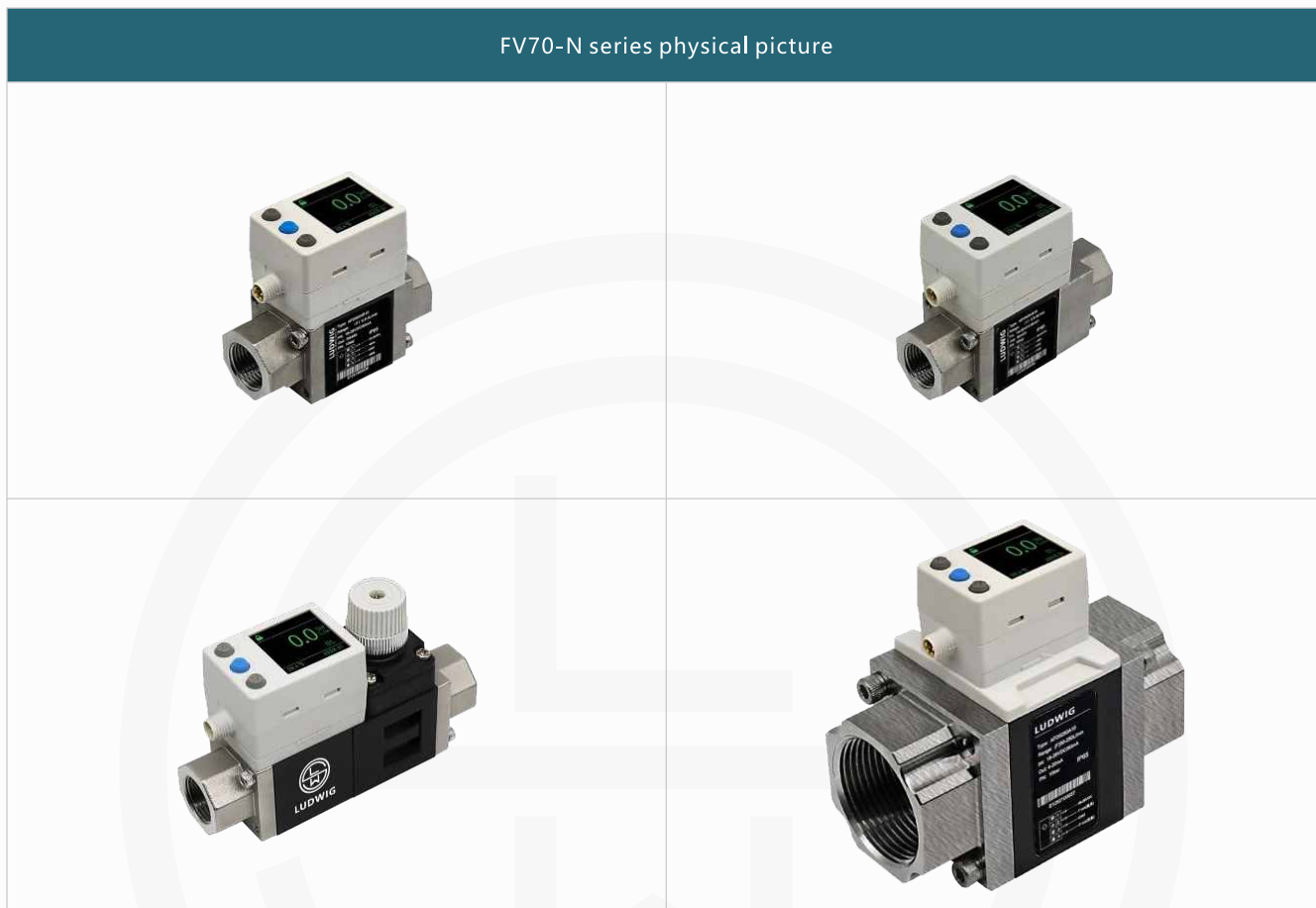
Features

- Excellent repeatability and high precision
- Low voltage loss, pollution resistance
- Vortex measurement principle, without moving parts



Physical diagram

FV70-N series physical picture



Performance parameters

Parameter	Numerical value
Flow range	0.5~4L/min, 50~250 L/min
Fluid temperature range	0~90 ° C (no freezing or condensation)
Flow accuracy	<±3.0% F.S. (traffic)
temperature accuracy	±5%F.S.max.(@25°C)
repetitiveness	<2.0%
Contact with liquid materials	PPS/SUS304 (stainless steel)
pressure rating	10 bar (maximum pressure 16 bar)
Ambient temperature	-10~65°C
pipeline	Thread type: G or RC
power supply	18~28VDC
Certification, specifications, etc	CE certification RoHS
medium	Non corrosive liquid
signal output	Three wire system 4-20mA, RS485, NPN, PNP, 1-5V

Note: NPN and PNP are only for flow alarm output.



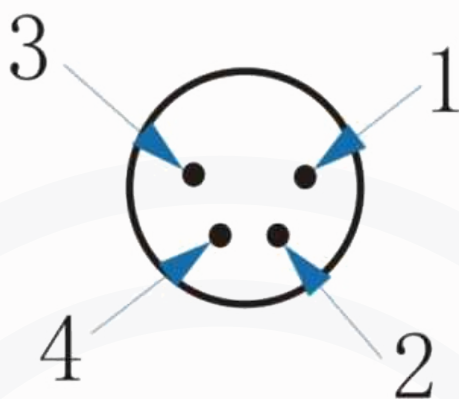
400-860-9760

For more product information, please visit www.ludwig-schneider.com.cn



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INSTRUMENT

Pin assignment



RS485, 4-20mA, NPN, 1-5V output, PNP output pin diagram



FV70-N Vortex Flow Meter Wiring Diagram (Line Length 1m)

FV70-N Vortex Flow Meter - Selection Composition

Example of Selection **FV70-N** B E O A B

1 2 3 4(4.1/4.2) 5

1. Range	A	0.5~4L/min
	B	50~250L/min
2. Output signal	E	RS485
	F	4~20mA
	G	NPN
	H	1~5V
	J	PNP
3. Temperature+ Display Screen	N	No temperature band display
	O	Equipped with temperature display
4.1 Thread specification (A series) with needle valve is only applicable to this series	A	G3/8
	B	RC3/8
4.2 Thread specifications (B series)	G	G1 1/4"
	H	RC1 1/4"
	J	G1 1/2"
	K	RC1 1/2"
5 Accessories	A	No needle valve
	B	With needle valve

Instructions:

The FV70-N vortex flowmeter has a range of 50~250L/min, an output signal of RS485, a temperature band display, thread specifications of A series G3/8, and accessories with needle valves.

Product Certification

Compliance and approval; Rod Weige flowmeter meets key standards and certifications for process measurement technology; Thus ensuring the highest reliability in such settings;