

VORTEX FLOWMETER

Liquid VORTEX Flow Meter LUGB

DESCRIPTION



The vortex flow meter is used for measuring the flow velocity of gases or liquids in pipelines flowing full. The measuring principle is based on the development of a Karman vortex shedding street in the wake of a body built into the pipeline. The periodic shedding of eddies occurs first from one side and then from the other side of a bluff body (vortex-shedding body) installed perpendicular to the pipe axis. Vortex shedding generates a so-called "Karman vortex street" with alternating pressure conditions whose frequency is proportional to the flow velocity.

Application range	(1)Gas;(2)Liquid;(3)Steam
Measured Value	
Primary measured value	Flow Rate
Secondary measured value	Volume flow;
	(Pressure and Temperature is available)
Temperature	
Process Temperature	T1 Level:-20...+100
	T2 Level:-20...+250 ₂
	T3 Level:-20...+350 ₂
Ambient Temperature	-10...+70 ₂
Pressure	
EN 1092-1	DN200...DN300: PN10
	DN100...DN200: PN16
	DN15...DN80: PN25
	Other pressures on request
ASME B16.5	1/2"...8":150lb RF
JIS	Other pressures on request
	1/2"...8": 10K
Reference conditions	Flow conditions similar to EN 29104
	Medium: Water/Gas/Steam
	Electrical conductivity: ?300uS/cm
	Temperature: -10...+30
	Inlet section: ?10 DN ₂
	Operating pressure: 1bar/14.5 PSIG
Flow Meter Accuracy	For Liquid: 1.0% of Rate
	For Gas and Steam: 1.5% of Rate
Body Material	SS304
	SS316
Converter Material	Standard: Polyurethane coated die-cast aluminum



DATA INSTRUMENTS



DATA INSTRUMENTS

Reg. Address :

16, DHARMADEVNAGAR,

Opp. SAMARATNAGAR,

ISANPUR, Ahmedabad - 382443.

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FACTORY :

100, NILKANTH INDUSTRIAL PARK,

AMBIKA TUBE COMPOUND,

NEAR OVER BRIDGE VATVA, GIDC,

Vatva, Ahmedabad - 382445.

Model Selection

Model	LUGB							Description
Fluid	L							Liquid
	G							Gas / Ar
	S							Steam
Diameter	XXX							DN15-DN300
Structure	S							Compact
	L							Remote
Converter Type	N							24V DC; Pulse output; No display; Ex
	A							24V DC; 4-20 mA output; Pulse output; No display; Ex
	B							Battery power supply; No output; Ex;
	C							24V DC; 4-20 mA output / Pulse output;
	V							24V DC; 4-20mA output / Pulse output (A type is only for Gas / Steam application)
	D							24V DC; 3-wire 0-20mA output; Temperature & Pressure Compensation
	Notice:							1)Modbus RS485 is optional for C,V,D series 2)Dual Power(24VDC+Battery) is optional for C,V,D series
Body Material	S4							SS304
	S6							SS316
Explosion Proof	BT							Exd II BT6
	CT							Exd II CT4
	NA							No explosion proof
Connection	WAF							Wafer connection
	DXX							D16: DIN PN16 flange; D25: DIN PN25...
	AXX							A15: ANSI 150# flange; A30: ANSI 300#...
	JXX							J10: JIS 10K flange; J20: JIS 20K...
Temperature	T1							-20...+100 °C
	T2							-20...+250 °C
	T3							-20...+350 °C

Flow Range

Diameter (mm)	Liquid (m3/h)	Gas (m3/h)
15	1.2 ~ 6.2	5 ~ 25
20	1.5 ~ 10	8 ~ 50
25	1.6 ~ 16	10 ~ 70
40	2.5 ~ 26	22 ~ 220
50	3.5 ~ 38	36 ~ 320
65	6.2 ~ 65	50 ~ 480
80	10 ~ 100	70 ~ 640
100	15 ~ 150	130 ~ 1100
125	25 ~ 250	200 ~ 1700
150	36 ~ 380	280 ~ 2240
200	62 ~ 650	580 ~ 4960
250	140 ~ 1400	970 ~ 8000
300	200 ~ 2000	1380 ~ 11000



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