

LUVOX - VORTEX FLOW METER

Karman vortices flowmeter, suitable for saturated and superheated steam, gases and liquids. With no moving parts, high reliability and durability. Simple installation and maintenance.

The frequency of the vortices produced by a generator bluff body mounted inside the meter is directly proportional to the flow velocity. Within a wide range of variation of the Reynolds number the measure of the vortices is stable and independent of variations in physical and compositional properties of the fluid, as a function of dimensionless single characteristic due to the geometry of the meter or the Strouhal number ($St = f \cdot xv / d$) where:

- f = frequency of the vortices
- v = flow velocity
- d = diameter of the pipe

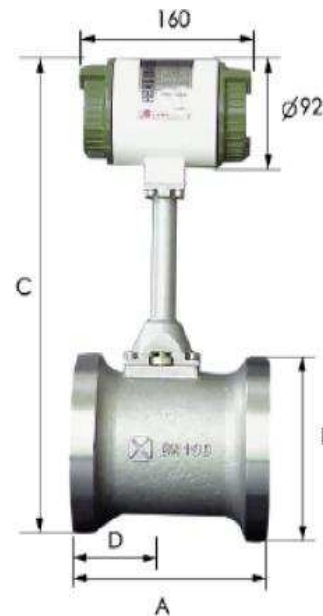


TECHNICAL SPECIFICATIONS

Fluids measured:	saturated and superheated steam, gases, liquids
Accuracy:	+/-1.5% gases; +/- 1% liquids
Ripetibility:	+/- 0.5% gases, +/-0.33 liquids
Nominal Pressure:	standard NP16 (on request NP 25...40)
Fluids Temperature:	-40...+250°C standard (+350°C on request)
Body:	S.S. 304
Converter:	cast aluminum
Output:	standard 4/20 mA 2 wires, pulse output
Serial communication:	RS485, HART, ModBus on request
Power supply:	24V dc; (3,6V Lythium Battery on request)
Class protection:	IP65
Ambient temperature:	-35...+60°C (without display); -5...+60°C (with display)
Humidity range:	5...95%
Cable:	2xM20x1,5 gland
Explosion-proof:	on request EXD II BT4; EXIB II CT4;
Optionals accessories:	flanges, bolts, nuts, gaskets



ND	A	B	C
15	100	35	387,5
20	100	45	390
25	100	57	394
32	100	65	396
40	100	75	400
50	110	87	405
65	110	109	411
80	110	120	417
100	120	149	445
125	133	175	475
150	160	203	499
200	185	259	555
250	210	312	607
300	240	363	659
350	260	409	709
400	285	460	761
450	310	520	817
500	330	575	882



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