FF1225-U
Insertion Ultrasonic Gas Flow Meter
Single Port Insertion

Description

The FF1225-U ultrasonic gas flow meter combines proven Lauris transit-time technology with a rugged insertion design for reliable performance in demanding applications. Suitable for installation on standard 2" or 3" welded ports and process pipe diameters starting at 6", it features a built-in cleanout chamber that allows the sensor to be removed under pressure for easy inspection and maintenance.

Unlike optical or thermal technologies, the FF1225-U is unaffected by solids, dust, or moisture in the gas stream and can operate under negative pressure conditions where differential pressure meters such as Pitot tubes and Annubars fail. Its minimal pressure drop, wide measurement range, and durable construction ensure long-term accuracy and low maintenance costs.

Well suited for natural gas, flare gas, biogas, power generation, and petrochemical processes, the FF1225-U offers a cost-effective and dependable solution for accurate flow measurement even in the most challenging environments.

Features

- Process temperature as high as 200C
- Built-in cleanout chamber
- Process piping 6" and up
- Operates at negative pressure, high moisture content and dust
- Gas velocity as low as 0.01m/s
- Process port connection sizes 2" and 3"

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Specifications

General

Design	Single Path (1-port), Dual Path (2-ports)
Material:	SS316, Monel, Titanium (others available upon request)
Process Connection	Flange ANSI #150, RF, 2" or 3"
Velocity Range	0.01m/s to 100m/s (0.03ft/s to 330ft/s)
Accuracy	1.0% to 2.5%
Repeatability	0.2%
Cleanout Ports	1/2" NPT

Operating Conditions

Pipe Diameter	6" to 48"
Process Temperature	-40C to +200C (-0F to +392F)
Process Pressure	-0.5barg to 19barg (-7psig to 275psig)
Ambient Temperature	-45C to +60C (-49F to +140F)

Electrical Characteristics

Supply Voltage	24VDC or 100-250 VAC
Power Consumption	2.5W (max)
Output	4-20mA, ModBus, HART
LCD Display	Standard, can be excluded for low temperature operations
Enclosure	Die-cast aluminum or SS
Hazardous Area Approval	CSA/ULClass 1, Div.1., Group BCD T4
	ATEX (Zone 1), IECEx (Zone 1)

Sunshade	Available in GRP or SS

WORKS IN WET AND DIRTY PROCESS GASES

Velocity / Flow
0.176 m/s
129.5 m³/h
FF1225 FLOW METER

ISO 9001:2015 CERTIFIED COMPANY