



FF1225-G

Vertical Ultrasonic Gas Flow Meter

Vertical Port Insertion

Description

The FF1225-G Ultrasonic Gas Flow Meter is specifically designed for vertical pipe installations where side access is limited. It uses proven transit-time ultrasonic technology in a top-entry insertion design, allowing accurate, repeatable measurements without requiring lateral clearance.

The meter fits standard 2" or 3" threaded or welded ports on pipes 4" and larger and includes a top-access cleanout chamber for sensor removal under pressure. This simplifies maintenance and inspection while the line remains in service.

Unaffected by dust, moisture, or solids, the FF1225-G performs reliably even under negative pressure, where differential pressure devices may fail. With low pressure drop, wide measurement range, and rugged construction, it offers a dependable, low-maintenance solution for gas flow measurement in natural gas, biogas, flare gas, power, and petrochemical applications.



Features

- Process temperature as high as 200C
- Built-in cleanout chamber
- Process piping 4" and up
- Operates at negative pressure, high moisture content and dust
- Gas velocity as low as 0.01m/s
- Vertical installation



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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	4" to 50"
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

