

LAURIS FF1225-G

VERTICAL-PORT INSERTION ULTRASONIC GAS FLOW METER

Engineered and manufactured by Lauris Technologies, Canada

Supplied and supported by Blue Dragon Technology

Top-entry vertical-port insertion ultrasonic gas flow measurement for vertical piping and restricted-access installations

The Lauris FF2225-G is a vertical-port insertion ultrasonic gas flow meter that designed for vertical pipe installations where side access is limited. It uses a top-entry insertion design to provide accurate, repeatable measurements without requiring lateral clearance. The meter fits standard 2 in or 3 in threaded or welded ports on pipes 4 in and larger and includes a top-access cleanout chamber for sensor removal under pressure. Built for reliable operation in natural gas, biogas, flare gas, power, and petrochemical applications, it delivers accurate flow measurement even in dirty, wet, and variable gas environments.



Vertical-Port Insertion Design

Purpose-built for vertical piping installations.



Top-Entry Maintenance Access

Built-in cleanout chamber allows sensor removal under pressure.



Ideal for Limited Side Clearance

Top-entry design reduces the need for lateral space.

WHY CHOOSE THE LAURIS FF1225-G?



Vertical-Port Design

Purpose-built for vertical piping installations.



Wide Velocity Range

Measures from 0.01 m/s to 100 m/s.



Built-in Cleanout Chamber

Sensor removal under pressure for maintenance.



Dirty Gas Tolerance

Operates with dust, moisture, and negative pressure.



Fits Tight Installations

Top-entry design reduces side-clearance needs.



Industrial Outputs

4-20 mA, Modbus, and HART.

INDUSTRIES & APPLICATIONS



Vertical Process Piping

Flow measurement in vertical gas pipelines.



Flare Gas

Monitor and control flare gas flow.



Biogas

Measure biogas in production and treatment systems.



Natural Gas

Accurate measurement in natural gas pipelines.



Petrochemical Processes

Process monitoring in refineries and plants.



Power Generation

Support gas flow measurement in power plants.

HOW IT WORKS

1



Meter is mounted through a top-entry port



2



Sensor is inserted into the vertical gas stream



3



Ultrasonic transit-time data is captured



4



Signal is processed for velocity and flow



5



Flow data is converted to usable outputs



6



Results are sent to plant systems

TECHNICAL SPECIFICATIONS

Design	Single path (1-port), dual path (2-ports available on request)
Materials	SS316, Monel, Titanium
Velocity Range	0.01 m/s to 100 m/s
Accuracy	1.0% to 2.5%
Repeatability	0.2%
Pipe Diameter	4 in to 50 in
Process Temperature	-40°C to +200°C
Process Pressure	-0.5 barg to 19 barg
Ambient Temperature	-45°C to +60°C
Power Supply	24VDC or 100-250 VAC
Outputs	4-20 mA, Modbus, HART
Area Approval	CSA/UL Class 1 Div 1, ATEX Zone 1, IECEx Zone 1
Sunshade	Available in GRP or SS



BUILT FOR VERTICAL GAS FLOW INSTALLATIONS

- ✓ Designed for vertical piping and tight access points
- ✓ Supports maintenance without taking the line out of service
- ✓ Handles dirty, wet, and variable gas streams
- ✓ Suitable for natural gas, biogas, and flare gas service
- ✓ Designed for reliable industrial plant integration

