BLUE DRAGON TECHNOLOGY

BDT FLOW MEASUREMENT SERIES

LAURIS FF1225-U

SINGLE-PORT INSERTION ULTRASONIC GAS FLOW METER

Engineered and manufactured by Lauris Technologies, Canada

Supplied and supported by Blue Dragon Technology

Retrofit-friendly insertion ultrasonic gas flow measurement for natural gas, flare gas, biogas, and process gas applications

The Lauris FF2225-U is a rugged single-port insertion ultrasonic gas flow meter that combines transit-time technology with an insertion design for demanding applications. Suitable for standard 2 in or 3 in welded ports, 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, it is unaffected by solids, dust, or moisture in the gas stream and can operate under negative pressure conditions. Well suited for natural gas, flare gas, biogas, power generation, and petrochemical process service.

Single-Port Insertion Design
Cost effective insertion measurement for gas service.

Built-in Cleanout Chamber
Sensor removal under pressure for inspection.

Works in Wet & Dirty Process Gases
Operates with dust, moisture, and negative pressure.

WHY CHOOSE THE LAURIS FF1225-U?

Single-Port Insertion Design
Cost-effective insertion mesurement for gas service

Wide Velocity Range
Measures from 0.01 m/s to 150 m/s.

Built-in Cleanout Chamber
Sensor removal under pressure for inspection.

Dirty Gas Tolerance
Operates with dust, moisture, and negative pressure.

Flexible Port Sizes
Standard 2 in or 3 in process port connections.

Industrial Outputs
4-20 mA, Modbus, and HART.

INDUSTRIES & APPLICATIONS

Flare Gas
Measures flare gas flow for monitoring and control.

Biogas
Supports biogas production and process control.

Natural Gas
Accurate measurement of natural gas applications.

Petrochemical Processes
Reliable flow data for process and utility service.

Power Generation
Monitors fuel gas flow in power generation.

Retrofit & Upgrade Projects
Ideal for retrofits and existing system upgrades.

HOW IT WORKS

1. Meter is mounted through a 2 in or 3 in port
2. Sensor is inserted into the flowing 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	6 in to 48 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 INSERTION GAS FLOW DUTY

- Ideal for retrofit gas-flow installations
- Handles dirty, wet, and variable gas streams
- Minimizes pressure drop and maintenance burden
- Suitable for flare, biogas, and natural gas service
- Designed for plant integration and field reliability

bluedragontechnology.com

info@bluedragontechnology.com