

BDT FLOW MEASUREMENT SERIES

LAURIS FF2225-A

DUAL-PATH INLINE ULTRASONIC GAS FLOW METER

Engineered and manufactured by Lauris Technologies, Canada
Supplied and supported by Blue Dragon Technology

High-accuracy dual-path inline ultrasonic gas flow measurement for flare gas, vent gas, process gas, and natural gas applications

The Lauris FF2225-A is a dual path inline ultrasonic gas flow meter designed for precision measurement of unclean and variable gas streams including flare gas, flue gas, vent gas, associated gas, and natural gas. Engineered for improved measurement confidence in larger pipeline and demanding applications, it offers exceptional tolerance to gas impurities and is ideally suited for emissions compliance and process optimization.



Dual-Path Ultrasonic Measurement
Transit time measurement across two paths for higher accuracy and reliability.



Improved Accuracy for Demanding Duty
Up to $\pm 0.5\%$ accuracy in favorable dual-path applications.



Built for Industrial Inline Installation
Designed for large-pipe service with robust construction and easy integration.

WHY CHOOSE THE LAURIS FF2225-A?



Dual-Path Inline Design
Enhanced performance for demanding gas-flow applications.



Improved Accuracy
Up to $\pm 0.5\%$ in favorable dual-path applications.



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



8000:1 Turndown
Excellent rangeability across changing process conditions



Gas Impurity Tolerance
Proven tolerance to liquids and dirty gas streams



Industrial Outputs
Modbus, pulse/frequency, 4-20 mA, and HART.

INDUSTRIES & APPLICATIONS



Flare Gas Monitoring
Accurate flow data for emissions management.



Refineries & Petrochemicals
Reliable measurement for process and utilities



Natural Gas Pipelines
Custody transfer and operational monitoring.



Emissions Compliance
Support regulatory reporting and environmental goals.



Power & Utilities
Monitor fuel gas and process gas flow.



Vent Gas & Process Gas Systems
Measure vent and process gas flows with confidence.

HOW IT WORKS



Gas enters inline spool



Ultrasonic pulses travel across two paths



Transit-time differences are measured



Flow, pressure, and temperature data are processed



Standard and actual flow are calculated



Results are sent to plant systems

TECHNICAL SPECIFICATIONS

Measurement Principle	Transit-time ultrasonic, in-line
Transducer Type	Ultrasonic, wetted, non-intrusive, in-line
Velocity Range	0.01 m/s to 150 m/s
Accuracy	Up to $\pm 0.5\%$ in dual-path service, application-dependent
Repeatability	0.1%
Pipe Diameter	1.5 in to 200 in
Process Temperature	-190°C to +250°C
Process Pressure	0.1 bar to 400 bar absolute
Measurement Parameters	Standard flow, actual flow, flow rate, totalized flow, molar mass, pressure, temperature
Power Supply	24VDC nominal, 120/220VAC optional
Output	Modbus, frequency/pulse, 1 x 4-20 mA, HART, optional multi-analog outputs
Area Approval	CSA/UL Class 1 Div 1, ATEX Zone 1, IECEx Zone 1



BUILT FOR DEMANDING GAS FLOW MEASUREMENT

- ✓ Higher confidence in large-pipe gas measurement
- ✓ Suitable for flare, vent, and process gas duty
- ✓ Supports emissions and process optimization
- ✓ Rugged dual-path design for demanding environments
- ✓ Designed for integration into plant control systems

