

BDT FLOW MEASUREMENT SERIES

# LAURIS FF1225-A

## SINGLE-PATH INLINE ULTRASONIC GAS FLOW METER

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

### Reliable inline ultrasonic gas flow measurement for flare gas, vent gas, process gas, and natural gas applications

The Lauris FF1225-A is a single 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. Built with a rugged inline spool and advanced transit-time ultrasonic technology, it delivers unmatched rangeability, accuracy, and tolerance to gas impurities—ideal for emissions monitoring and industrial process optimization.



#### Transit-Time Ultrasonic Measurement

No moving parts, no pressure drop, high accuracy across a wide flow range.



#### Handles Dirty and Variable Gas Streams

Proven tolerance to liquids and impurities for reliable performance.



#### Designed for Industrial Inline Installation

Rugged spool design for dependable operation in demanding environments.

### WHY CHOOSE THE LAURIS FF1225-A?



#### Single-Path Inline Design

Dependable performance for standard gas-flow 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.



#### Broad Materials Options

SS316, SS316L, titanium, Hastelloy, or Monel.



#### 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 flow path



Transit-time difference is 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               | ±1.0% to 2.5% typical, 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, 120/220VA 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 GAS FLOW MEASUREMENT

- ✓ Accurate flow data for industrial gas systems
- ✓ Suitable for flare, vent, and process gas duty
- ✓ Supports emissions and process optimization
- ✓ Rugged design for demanding environments
- ✓ Designed for integration into plant control systems

