BLUE DRAGON TECHNOLOGY

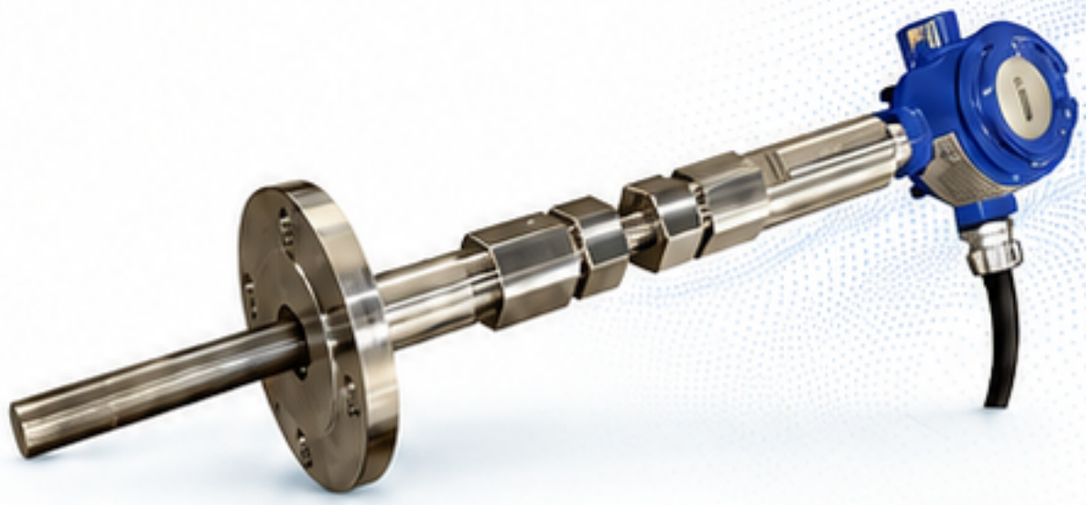
BDT FLOW MEASUREMENT SERIES

LAURIS FF1225-XT

EXTREME TEMPERATURE ULTRASONIC GAS FLOW METER

Engineered and manufactured by Lauris Technologies, Canada

Supplied and supported by Blue Dragon Technology



Waveguide ultrasonic gas flow measurement for extreme process temperature in demanding industrial gas applications

The Lauris FF2225-XT is an ultrasonic gas flow meter engineered for extreme process temperatures, building on proven Lauris transit-time technology with advanced waveguide design. It delivers reliable measurement where conventional meters cannot operate, with strong durability, low drift, and consistent accuracy in harsh, high-temperature environments. Ideal for flares, process gases, and critical industrial applications, the FF1225-XT ensures dependable performance in the most demanding gas systems.

Extreme-Temperature Capability
Built for process temperatures from -263°C to +600°C.

Waveguide Ultrasonic Design
Waveguide technology ensures stable and accurate measurement under thermal stress.

Suitable for Harsh Gas Environments
Engineered for flares, high-temperature gases, and demanding industrial service.

WHY CHOOSE THE LAURIS FF1225-XT?

Waveguide Design
Engineered for severe-temperature gas-flow service

Extreme Temperature Range
From -253°C to +600°C

Wide Velocity Range
Measures from 0.01 m/s to 100 m/s.

Broad Pipe Coverage
Suitable for 4 in to 80 in pipe sizes

Low Drift Stability
Reliable long-term performance in harsh service

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

INDUSTRIES & APPLICATIONS

Flares & High-Temperature Gas
Measurement for flares and hot industrial gases.

Petrochemical Plants
Support for gas flow in petrochemical processes.

Refineries
Accurate gas measurement in refinery operations.

Energy & Power
Gas flow monitoring for power and energy systems.

Process Furnaces
Ideal for high-heat furnace and thermal processes.

Harsh Industrial Gas Systems
Built for demanding and corrosive gas applications.

HOW IT WORKS

1. Meter is installed into the process connection
2. Waveguide-transducer assembly couples ultrasonic signals
3. Transit-time data is measured through the gas stream
4. Signal is processed for flow and velocity
5. Flow data is converted to plant outputs
6. Results are sent to control and monitoring systems

TECHNICAL SPECIFICATIONS

Design	Waveguide technology
Materials	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 80 in
Process Temperature	-253°C to +600°C
Process Pressure	0.5 bar to 100 bar absolute
Waveguide Length	18 in (0.46 m)
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 EXTREME-TEMPERATURE GAS FLOW

- Designed for severe-temperature industrial service
- Reliable where conventional meters cannot operate
- Supports harsh gas, flare, and process applications
- Strong durability and stable long-term measurement
- Designed for industrial integration and monitoring

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