FF1225-A

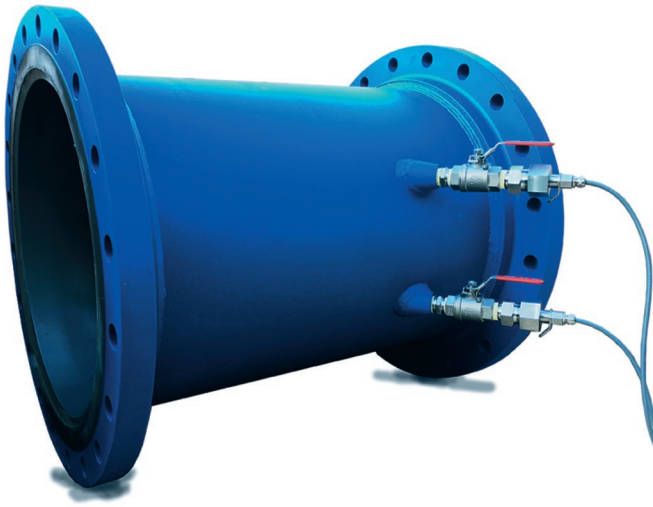
Ultrasonic Gas Flow Meter

Unprecedented rangeability, and tolerance to gas impurities

Description

The Lauris FF1225 Series Ultrasonic Flare Gas Flow meter is designed and manufactured for accurate flare gas metering. Lesser meter technologies, not “Fit For Purpose” are at times selected in a cost cutting effort. These inferior solutions can result in inaccurate flow measurements and higher maintenance costs. The FF1225 delivers accurate flare gas measurement over a wide range with minimal maintenance intervention. The flow meter is offered with several options including local or remote mount transmitter, temperature and pressure transducers, and a multi-path version that provides fiscal grade flow uncertainty of 0.5% in clean gases. Both the local or remote LCD display shows velocity, flow rate, total flow, temperature and pressure. The onboard memory of the transmitter/display allows for storage of up to 250,000 data points. Total data stored is defined by the sample rate programed by the user.

Consult with Lauris engineering team on your specific requirements of your flow measurement.



Features

- Lowest Minimum Detectable Velocity
- No Pressure Drop
- Totalized Flow, Flow Rate
- Wide Range of Metallurgy
- Variety of Pressure Ratings

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Specifications

Transducer Type	Ultrasonic, wetted, non-intrusive, in-line
Operating Principle	Transit Time Measurement
Transducer Material	SS316, SS316L, Titanium, Hastelloy, Monel
Cable Length	Up to 30m
Performance Characteristics	
Velocity Range	0.01m/s to 150m/s (0.03ft/s to 500ft/s)
Accuracy	+/-1.0% to 2.5%, up to 0.25% in Multi-path design
Repeatability	0.1%
Measurement Parameters	Standard & Actual Flow, Flow Rate, Totalized Flow, Molar Mass, Pressure, Temperature
Operating Conditions	
Pipe Diameter	0.04m to 5m (1.5" to 200")
Recommended Pipe Length	10 Diameters Upstream & 5 Diameters Downstream
Process Temperature	-40°C to +250°C (-40°F to 480°F)
Process Pressure	0.5bar to 285bar (7psi to 4150psi) Absolute
Presence of Liquids	No affect on flow measurement
Mechanical Characteristics	
Design	Pipe mount, NPT or Flanged Connections
Transducer Mount	Retractable
Length	Dependent upon pipe size
Electrical Characteristics	
Supply Voltage	24VDC Nominal (20V to 32V), 120/220VAC optional
Power Consumption	2.5W max
Inputs	2 @ 4-20mA for pressure and temperature
Outputs	ModBus, Frequency/Pulse, 1 @ 4-20mA, HART
IP Rating	NEMA 4X
Hazardous Area Approval	CSA/ULClass 1, Div.1., Group BCD T4 ATEX (Zone 1), IECEx (Zone 1)
Sunshade	Optional