



## FH1225

## Ultrasonic Gas Flow Meter

### Description

The FH1225 gas flow meter combines advantages of two complimentary ultrasonic flow metering methods: transit-time and transit phase.

This results in unprecedented turn-down ratio, starting from the minimum velocity of 0.02m/s to the maximum gas velocity of 175m/s. The meter is insensitive to entrained liquids and clogging of transducers with heavy hydrocarbons and paraffins.

Applications include flare gas measurement in small and medium pipes and associated gas flow measurement at wellheads.





#### **Features**

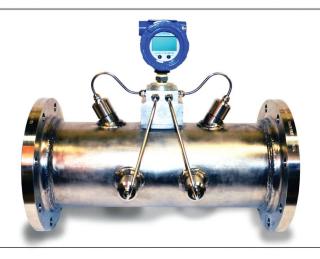
- Highest turn-down ratio from Vmin=0.02m/s to Vmax=175m/s in one device
- No pressure drop
- Volumetric and molecular
  & mass flow measurement





# FH1225

### Ultrasonic Gas Flow Meter



#### **Specifications**

**Transducer Type**Operating Principle

Transducer Material

Cable Length

**Performance Characteristics** 

Velocity Range

Accuracy

Repeatability

**Measurement Parameters** 

**Operating Conditions** 

Pipe Diameter

Minimum Pipe Length

Process Temperature Process Pressure

Presence of Liquids

**Mechanical Characteristics** 

Design

Transducer Mount

Length

**Electrical Characteristics** 

Supply Voltage

Power Consumption Inputs

Outputs

Hazardous Area Approval

Ultrasonic, wetted, non-intrusive, in-line

Transit-time and transit-phase measurement

SS 316 10m (30ft)

0.02 m/s to 175 m/s (0.06 ft/s to 585 ft/s)

±1.5% to ±3%

Better than 1%

Standard and actual volume flow, totalized volume flow, molecular

weight, mass flow, pressure, temperature, gas velocity

5 cm to 100 cm (2" to 40")

8D (upstream) & 4D (downstream) -40°C to +135°C (-40°F to 275°F)

0.8 barA to 20 barA (10 psiA to 300 psiA)

Not affected

Spool type, flanges ANSI 150, pipe Sc.40, material SS316

Retractable, one-by-one

60cm to 120cm depending on pipe diameter

24VDC (20-32 VDC)

5W (max)

Two 4-20 mA for external pressure and temperature sensors

Digital-ModBUs, two analog 4-20mA, pulse-frequency

CSA/UL Class 1, Div.1, Group ABCD T4