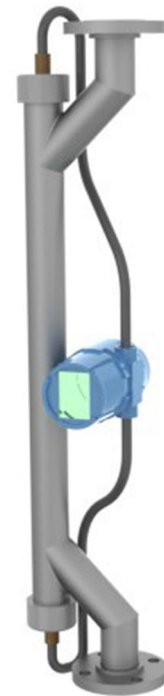


FA1221 Ultrasonic Gas Flow Meter

Description

Upstream applications frequently require gas flow measurements which presents challenges for conventional instrumentation: clogging by liquids, no pressure drop, low flow, etc. The FA1221 ultrasonic gas flow meter was developed for resolving these difficulties.

The proprietary ultrasonic axial time-of-flight measurement provides accurate flow data starting from velocities as low as 1cm/s. Such high sensitivity enables reliable measurement of tiny breathing of tanks (gas venting) as well as the registration of minuscule motion of flare gases, casing gases and biogases.

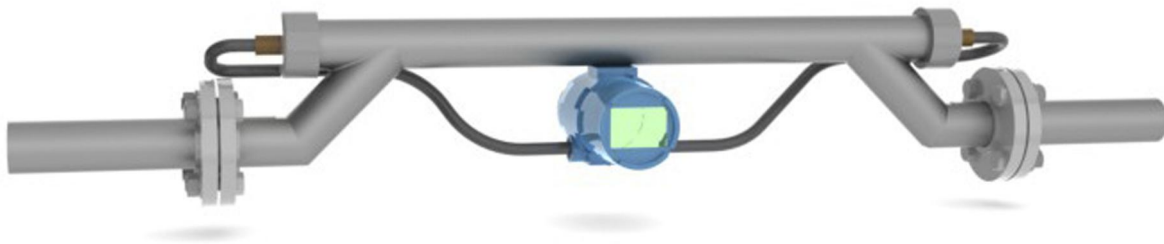


Features

- Low measurable velocity (from 1cm/s)
- High turn-down ratio (2000:1)
- Uncertainty less than $\pm 2\%$ from reading
- Repeatability better than 0.5%

FA1221

Ultrasonic Gas Flow Meter



Specifications

| | |
|------------------------------------|---|
| Pipe Diameter | 1" to 3" |
| Length | 70cm (2.3ft) |
| Upstream pipe length | 5D |
| Pipe Connection | Threaded, Flanged |
| Process Temperature | -40°C to +90°C (-40F to 195F) |
| Maximum Process Pressure | 20 bar (300 psi) |
| Flow Uncertainty (two path design) | ±5%, from 0.01 to 0.05 m/s (0.033 to 0.17 ft/s) ±2%, from 0.05 to 0.1 m/s and from 10 to 20 m/s (0.17 to 0.33 ft/s and 33 to 67 ft/s) ±1%, from 0.1 to 10m/s (0.33 to 33 ft/s) |
| Output Signal | 4-20 mA, ModBus, |
| Update Rate | 1s |
| Power requirements | 12..36 VDC, 5W |