



MULTIPATH TECHNOLOGY, SYMMETRICAL
DESIGN & A FULL TITANIUM TRANSDUCER

Natural Gas Ultrasonic Flow Meter

Wide measuring ranges allow the Ultrasonic Flow Meter to be used even in measuring stations where flow rates vary greatly.



Honeywell's Gas Ultrasonic Flow Meter is suitable for fiscal measurement of natural gas and gas phase fluids from atmospheric pressure to full ANSI class 1500# rating. With wide flow measurement rangeability of up to 120:1, and robust, fully encapsulated transducers that operate over the full operating pressure range of the meter; the USZ-08 combines flexibility and reliability.

Product Features

- 6 Direct Chordal Path gas custody flow meter per AGA 9 and ISO 17089
- Sizes: 4"-40", ANSI 150#-1500#
- Retractable transducers (in-service)
- Titanium encapsulated transducers resist fouling
- Robust transducer available in 120kHz or 200kHz; each transducer type covers full pressure range ($14.7 < P < 3,500$ psig)
- 3 Serial (RS-485), 2 scalable pulse (0-4,000 Hz), and 1 analog (0/4-20 mA) outputs
- Proof curve linearization fits in the USM electronics (USE09)
- Path Failure Substitution based on learned historical data; certified for up to 2 failed paths
- All meter diagnostic parameters available in real-time via serial connection (RTU Modbus)
- Diagnostic Software (RMGView) with embedded AGA 10, Speed of Sound calculation included with meter

Find Out More:

To learn more about Mercury Instruments products, contact your Honeywell Process Solutions representative, visit www.mercuryinstruments.com or call 513-272-1111.

Automation and Control Solutions

Honeywell Process Solutions
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Specifications

Uncertainty

- $< \pm 0.25\%$ of the value measured (from 10% to 100% of Q_{max})
- $< \pm 0.15\%$ with high pressure calibration

Reproducibility

- $\leq 0.1\%$

Ultrasonic Frequency

- 120 kHz or 200 kHz

Measuring Interval

- 1 update / sec.

Flow Velocity

- -131.2 to +131.2 ft/s

Gas Temperature Range

- -40° to $+176^{\circ}\text{F}$ (-40°C to $+80^{\circ}\text{C}$)

Power Supply

- 24 V/DC

Power Requirement

- Measuring element: < 15 W

Measured-Value Transmission

- 3 serial interfaces (RS 485)
- 2 Pulse outputs
- 1 Current Output (user-programmable, 0/4-20 mA, electrically isolated)

Explosion Protection

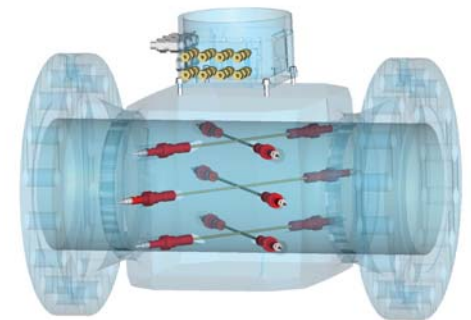
- IIC G Ex de IIC T5 / T6
- BVS 07 ATEX E 035
- UL/CSA NEC Class 1, Div 1, Groups C & D

Protection Class

- IP 65

Certifications

- CSA/UL, Class1, Div 1, Groups C & D
- TUV
- Measurement Canada (pending)
- MID
- ATEX
- PTB
- ISO 9000 QA System



6 individual ultrasonic measuring paths in a 3 plane, crossed path arrangement.

Honeywell