

Ultrasonic Gas Flowmeter

Xonic® 10G

- ✓ **Natural Gas Flowmeter**
- ✓ **AIR Supply Lines**
- ✓ **Combustion Gas**
- ✓ **Tunnel Air Flow Control**



Flange Size	Paths	Minimum Flow	Maximum Flow
50mm	1	0.35	100
80mm	1	0.90	270
100mm	1	1.41	420
150mm	3	3.18	950
200mm	3	5.65	1700
250mm	3	8.83	2600
300mm	3	12.72	3800

As Xonic-10G Ultrasonic Flowmeter uses Ultrasonic Transit-Time Technology, it shows superior performance than the conventional pressure gas flow meter. Depends on pipe size, it uses one path or three path ultrasonic sensor(s), and the temperature sensor is embedded for volume compensation.

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Characteristic

- 0.05 m/s Measuring low flow rates
- Wide measuring range 200:1
- No moving parts
- Pressure loss control
- Easy to install and maintain
- 3 Cross path measurement
- Temperature sensor and volume compensation

Outstanding Performance

Xonic-10G demonstrates higher and more accurate velocity measurement range compared to the existing mechanical. Direct/Command Flow maintains 1% of accuracy, minimum versus maximum flow rates is 200 times over.

Digital Signal Processing

To have accurate analysis of the ultrasonic signal, DSP advanced technique is used to calculate the time lag according to the flow velocity. In worst noise, it consecutively maintains high accuracy by detecting clear signal.

Self-Diagnostic /Test Function

In the field, flowmeter operational status could be checked through Xonic-10G graphic LCD panel. In particular, with a simple manipulation, the oscilloscope ultrasonic signal function makes it possible to determine the operational status gauge in the field.

General Specification

Measurement method	Ultrasonic transit-time difference
Velocity Measurement	-30m/s ~ 30 m/sec
Minimum Velocity	0.05m/s
Display	Flow (Instant Flow, standard, mass), Total Flow, Velocity
Accuracy (Reading)	1.0%
Reproducibility	0.25%
Diagnostic Function	the shape of ultrasonic signal, value gain, ΔT , FFT
Measuring Gas Type	Natural gas, gas, AIR, combustion gas

Converter

Temperature	-20 ~ +75°C
Explosion Proof IECEx	Ex d II C
In / Output	Digital Out_two normally open collector Analog Out_two 4-20mA Analog In_One 4-20mA
Interface	RS-232C, RS-485 MobBus
Power	12~24VDC

Transducer

Flange Range	25~ 500mm flange type
Material	Stainless304
Temperature	-20 ~ +100°C
Working Pressure	20 bar below
Temperature Sensor	4 wire, -40 ~ +120°C

※ Above specifications can be changed without prior notice. Xonic® is a registered trademark of JAIN TECHNOLOGY and AR® (Anti-Round) Beam is JAIN TECHNOLOGY's patented technology.