

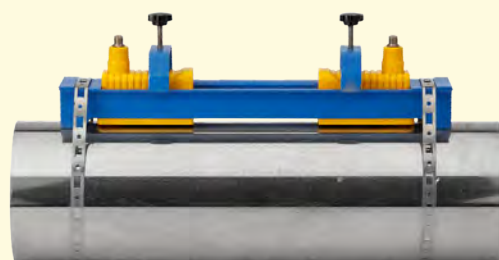
Clamp-on Ultrasonic Gas Flowmeter

Xonic[®] 100GC

✓ Natural Gas

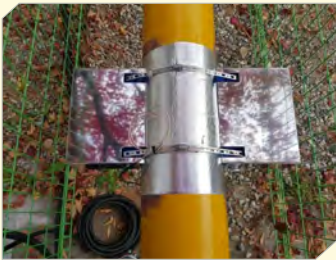
✓ Fuel Gas

✓ Vent Gas



Xonic 100GC is a transit-time ultrasonic flowmeter with outstanding performance compared to the differential pressure flowmeter. Depending on pipe size, system use 1 or 2 path ultrasonic sensor and use temperature sensor for volume compensation. Xonic 100GC is the first clamp-on ultrasonic gas flowmeter developed in Korea to replace high-end foreign brands by maintaining performance and reducing price of conventional gas flowmeter.

Xonic[®] 100GC



Feature

- Clamp-on Ultrasonic Sensor
- Measure low flow rate 0.05m/s
- Wide measuring range 200:1
- No moving part
- Pressure loss control
- Easy to install and maintain
- Temperature sensor and volume compensation

Clamp-on Transducer

Xonic 100GC is intrinsically safe as it uses clamp-on transducer without cutting pipe to measure flow. In case of steel pipe, it operates at 5Kg/cm² pressure.

Digital Signal Processing

In order to analyze ultrasonic signal accurately, Xonic 100GC use DSP advanced technique to calculate the time lag according to the flow velocity. System consecutively maintains high accuracy by detecting clear signal even there is heavy noise.

Self-Diagnostic Function

Xonic 100GC has graphic LCD that allows user to check operational status in the field. Particularly, with a simple manipulation, the oscilloscope function makes it possible to determine the operational status of gauge in the field.

Safe Installation & Maintenance

Xonic 100GC is suitable for measuring explosive gas as the clamp-on transducer does not contact directly with gas and it is easy to install and maintain.

2-Path Measurement

Xonic 100GC use two path measurement method to maintain top performance in the field. Two path measurement advantage is that it still can keep accuracy even the straight pipe run is short.

Specification

Principle	Transit-Time
Operating pressure	For steel pipe 5Kg/cm ²
Velocity (bi-direction)	-30 m/s ~ 30 m/s
Display	Instant flow(standard), Total flow, Velocity
Accuracy (Reading)	1.0%
Reproducibility	0.25%
Diagnostic Function	Ultrasonic signal shape, Gain value, ΔT, FFT
Application	Natural gas, Gas, AIR

Converter

Temperature	-20 ~ +80°C
Ex-proof	IECEX_ Ex d II C, ATEX
Protection degree	IP65
In/Output	Digital Out _two normally open collector Analog Out _two 4-20mA Analog In_One 4-20mA
Interface	RS-232C, RS-485
Power	AC110~220V

Transducer

Ultrasonic transducer	Clamp-on
Material	Stainless 316
Protection degree	IP68, intrinsically safe
Temperature	-20 ~ +80°C
Temperature sensor	4 wire, -40 ~ +120°C