

Xonic[®] 100 Clamp-On Ultrasonic Flowmeter

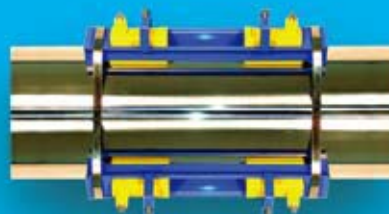


- Single/Dual Path or Dual Channel
- Accuracy $\pm 0.5\% \sim 1.0\%$
- Pipe Easy Installation
- Patented Anti-Round Ultrasonic Signal Mode
- New Excellent Products from Korea

Clamp-On Transducers
Easy Installation
No Cutting Pipe
DSP Technology
Anti-Round Mode Ultrasonic Wave



JAIN TECHNOLO



• Clamp-On • AR-Mode • DSP Technology • Touch Key Panel



Jain Technology make new and digitalized ultrasonic flowmeters for liquid and gas flow. Also, Jain Technology has certified calibration laboratory for liquid flow in accordance with the recognized International Standard ISO/IEC 17025 : 2005.

Xonic® 100 Ultrasonic Flowmeter

What is Xonic 100?

Xonic 100L measure transit-time of flow and use DSP (digital signal processing) technology to analyze ultrasonic signals. This DSP technology can remove any noise from pipe and electronics. Also, Xonic 100L use Cross Correlation and FFT (Fast Fourier Transform) technology to make very clean ultrasonic signals.

Measuring pipe is from 15 ~ 6,000mm, and velocity range is from 0.02 ~ 12 m/sec. Xonic 100L can measure very slow flow, so very suitable for block flow (leak) monitoring system. Also, it has two 4-20mA inputs, so user can use this inputs to receive pressure and temperature data without PLC.



Xonic 100 Ultrasonic Flowmeter

What use Xonic 100?

Clamp-On Technology make installation very simple. User just attach clamp-on transducers on pipes or insertion with hottap valve transducers drill to pipe. Do not need stop water supply for installation and after service.

Xonic100L can work with many kinds of pipe, such as: Steel, Stainless (SUS), Ductile Iron, Copper, A/C, PVC, PE, PB, FRP or others if know sound velocity.

Turn-down ratio of Xonic100L is more than 1000 :1. Xonic 100L is the best flowmeter to check minimum flow during mid-nights. The Flow in mid-night is down to 1 m³/ hr for 100 mm pipe and Xonic 100L can keep the accuracy.

Xonic 100L use Cross Correlation technology. The technology is able to remove most noises outside the pipe. Also, Xonic 100L can measure liquids contain heavy air and slurry.

Xonic 100L has large color graphic LCD. It allows user to read the flow, total, analog input data (pressure, level, etc) and the ultrasonic signal diagram. So user can check how flowmeter works in field without oscilloscope as diagnostic functions.

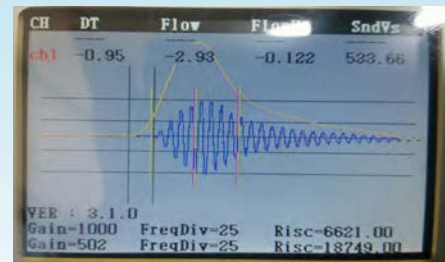
Xonic 100L is dual beam or dual path is basic model. User can use as single channel flowmeter with one pair transducers, and dual channel or dual path flowmeters with two pair transducers.

Best Flowmeters To Check Block Flow

Can measure 0.02 m/sec velocity

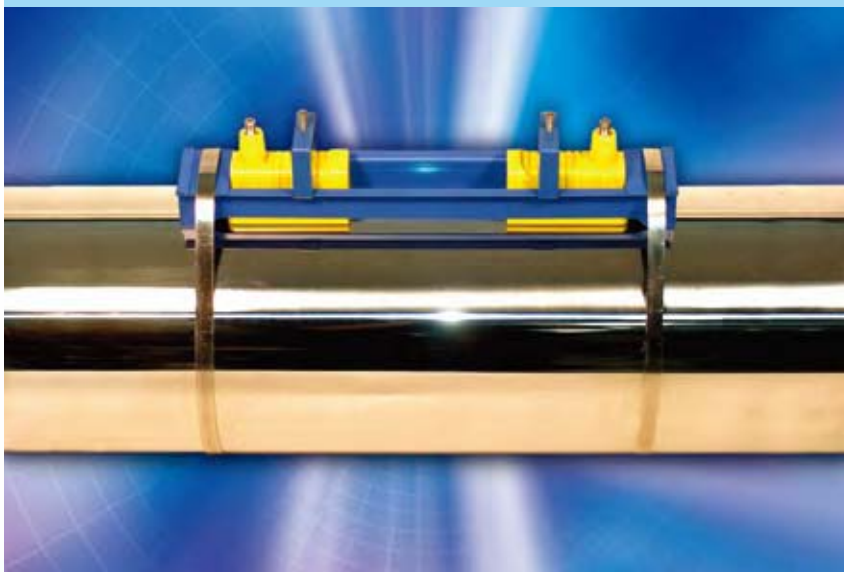
Performance of Xonic 100

- ✓ Clamp-On or Insertion Transducers
- ✓ Patented Anti-Round Technology
- ✓ Velocity is from 0.02 to 12 m/sec
- ✓ Measure Water Contains 30% Air and Slurry
- ✓ Oscilloscope Function
- ✓ DSP Technology (Cross Correlation)
- ✓ 12 Patents
- ✓ Two 4-20mA Analog Outputs for Positive & Negative Flow
- ✓ Two Relays for Flow Totalizer
- ✓ Two Analog Inputs for Pressure, Level, and etc.
- ✓ Self-Diagnostic Functions
- ✓ Touch Key Programming
- ✓ Large Color Graphic LCD Display (320x240 pixel)
- ✓ Key Lock Function
- ✓ Software for Easy Installation and Download Data
- ✓ 1,000,000 Points Datalogging
- ✓ 2 Years Warranty



Applications

- Municipal Water, Waste Water
- Block Flow Monitoring
- Strong Acid, Solvent
- Milk, Beer, Demi-water
- Oil, Chemicals
- Cool and Hot Water
- Liquids contains Heavy Slurry and Air
- Pulp, Steel Industries
- Nuclear Power Plant
- Sea Water



Clamp-On Transducers are free from contamination and simple installation

Xonic® 100 Ultrasonic Flowmeter

Flow Computer and Transducers



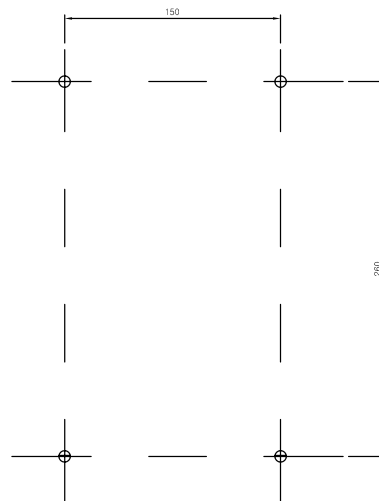
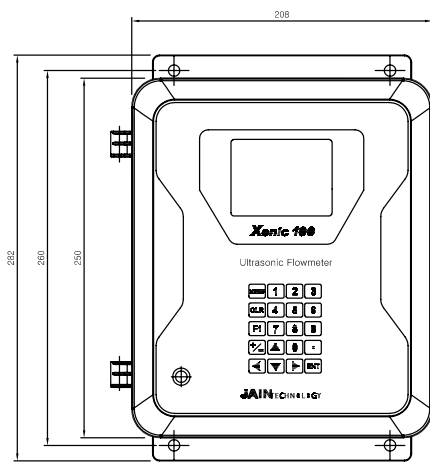
Specification

Installation	Clamp-On for pipe : 15 - 6,000mm, Insert : 80 - 6,000mm.
Principles	AR(Anti-Round) Mode, Transit-Time
Accuracy	± 1.0 % single path (over 0.02 m/s) ± 0.5 % dual path (over 0.02 m/s)
Velocity & Turn Down Ratio	± 0.02 ~ 12 m/s & 1000 : 1
Repeatability	0.25 %
Damping	1 ~ 999 seconds
Required Straight Run	10D upstream, 5D downstream, single path 7D upstream, 3D downstream, dual path
Output	Two 4-20mA (over than 750 OHM) ,Two Relays (AC/DC Contact Relay) Two relay for pulse totalizer ,Batch & alarm
Input	Two 4-20mA (for pressure, temperature etc)
Datalogger	32 Mbytes (more than 1,000,000 points Datalogging)
Display	Color Graphic LCD Display (Flowrate: 4.5 digit, Total: 12 digit) Flowrate, Velocity, Total (POS ,NEG ,NET) ,Input Data(AI), DeltaT ,Ultrasonic Signal Shape, Frequency
Communication	RS-232C, RS-485
Cable	RG62 A/U, standard 10m. option Max 200m
Power	AC110~220 V, 50/60Hz (option. DC12 ~ 24 Vdc)
Enclosure	NEMA 4, IP65 ,Temp. range: -20 ~ +60 °C
Transducers	Submersible, IP68 ,Temp. range: -40 ~ +120 °C
Software	Upload Configures with USB, Download & Reading Data

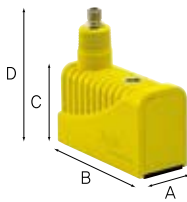
Best Flowmeters To Check Block Flow

Can measure 0.02 m/sec velocity

Drawings



PANEL HOLE SIZE
(8 ϕ HOLE)



Dimension

Unit : mm

	A	B	C	D	PIPE SIZE
size B	37	42	23	63	15 ~ 100
size C	45	60	35	72	50 ~ 300
size D	50	93	35	86	200 ~ 1000
size E	76	145	51	111	300 ~ 6000
size I				Insertion	80 ~ 6000



Company Introduction

- Products**
- X100P Portable Ultrasonic Flowmeter for Liquid
 - X10L Insertion Ultrasonic Flowmeter for Liquid
 - X100LM Open Channel Ultrasonic Flowmeter
 - X10G Spool Piece Ultrasonic Flowmeter for Gas
 - X5L Ultrasonic Water Meter
 - X5G Ultrasonic Gas Meter
 - Wireless Solar Power Flow Monitoring System
 - RF Meter Reading System
 - Counter Sniper Detection System
- Certification**
- Korea Calibration Laboratory Accreditation (KOLAS) ISO/IEC17025:2005
 - New Excellent Products from Ministry of Commerce
 - ISO 9001
 - ISO 14001
 - CE
- Awards**
- Prime Minister Awards
 - Ministry of Knowledge and Economy
 - Ministry of Environment