

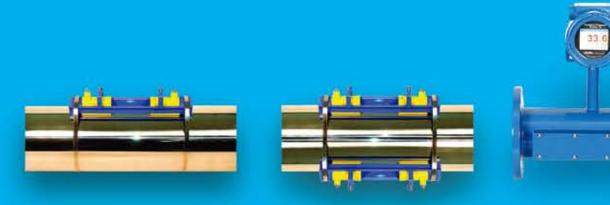
Xonic[®] 100 Clamp-On Ultrasonic Flowmeter



- Clamp-On Installation
- Accuracy ±1.0% or ±0.5% for Dual Path
- No cutting pipe for 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





Jain Technlogy 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

Xonic 10 technolog

Xonic 100 Ultrasonic Flowmeter

What is Xonic 100?

Xonic 100 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 100 use Cross Correlation and FFT (Fast Fourier Transform) technology to make very clean ultrasonic signals.

Measuring pipe is from 20 \sim 6,000mm, and velocity range is from 0.02 \sim 12 m/sec. Xonic 100 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.

Why use Xonic 100?

Clamp-On Technology make installation very simple. User just attach clamp-on transducers onto pipe. Do not need stop water supply for installation and after service.

In case of pipe change to small or big pipe, user can use existing ultrasonic flowmeter for the new pipe.

Turn-down ratio of Xonic 100 is more than 1000:1. Xonic 100 is best flowmeters to check minimum flow during mid-night. Many case, flow in mid-night down to 1 m^3 / hr for 100mm pipe and Xonic 100 keep accuracy.

Xonic 100 use Cross Correlation technology. So such technology remove most noise from outside, and make Xonic 100 can measure liquids contains heavy air and slurry.

Xonic 100 has large color graphic LCD, and it show flow, total, analog input data (pressure, level, etc), and ultrasonic signal shape, so user can check how flowmeter works in field without oscilloscope as diagnostic functions.

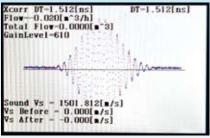
Xonic 100 is dual beam or dual path is basic model. User can use as single channel flowmeter with one pair transducers, and dual channel or dual path flowmeters with two pair transducers.

The Best Flowmeters To Check Block Flow Can measure 0.02 m/sec velocity

Performance of Xonic 100

- Clamp-On 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
- Key Lock Function
- Software for Easy Installation and Download Data
- 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

05 JAIN TECHNOLOGY

Xonic® 100 Ultrasonic Flowmeter

Flow Computer and Transducers





Transducers



Cable and Mounting Track

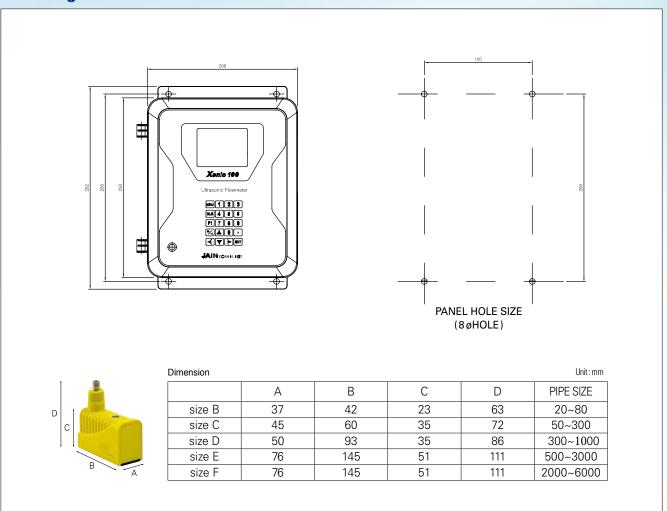


Specification

Installation	Clamp-On for pipe size:12.7 - 6,000 mm (depend on Transducer)
Principles	AR(Anti-Round) Mode, Transit-Time
Accuracy	$\pm1.0~\%$ single path (over 0.02 m/s) $\pm0.5~\%$ dual path (over 0.02 m/s)
Velocity	±0.02 ~ 12 m/sec
Turn Down Ratio	1000 : 1
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)
Input	Two 4-20mA (for pressure, temperature, etc)
Datalogger	8 Mbytes (more than 500,000 points Datalogging)
Display	Large Color Graphic LCD Display (320 x 240 pixel) Flowrate,Total ,Velocity, (POS ,NEG ,NET) Input Data, Delta T Ultrasonic Signal Shape, Frequency
Communication	RS-232C, RS-485
Cable	RG62 A/U, Max 200m
Power	AC110 ~ 220V or DC12 ~ 24V (Specify)
Enclosure	NEMA 4, IP65 ,Temp. range: $-20 \sim +60~^{\circ}\mathrm{C}$
Transducers	Submersible, IP68 ,Temp. range: -40 \sim +120 $^{\circ}\mathrm{C}$
Software	Download & Reading Data or Custom Configure (option/pending)

The Best Flowmeters To Check Block Flow Can measure 0.02 m/sec velocity

Drawings









07 JAIN TECHNOLOGY

Company Introduction

Products Portable Ultrasonic Flowmeter for Liquid

Compact Ultrasonic Flowmeter for Liquid Open Channel Ultrasonic Flowmeter Insertion Ultrasonic Flowmeter for Gas Spool Piece Ultrasonic Flowmeter for Gas

Ultrasonic Water Meter 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

IS09001 IS0 14001 CE

Awards Prime Minister Awards

Ministry of Knowledge and Economy

Ministry of Environment



Portable Ultrasonic Flowmeter



Compact Ultrasonic Flowmeter