JAIN TECHNOLOGY

Xonic® 10L
Compact Type
Ultrasonic Flowmeter

- Single/Dual Path or Dual Channel
- Accuracy ±0.5% ~ 1.0%
- New Excellent Product from Korea

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Xonic® 10 Ultrasonic Flowmeter

Compact Electronics NENA4 ,IP65 Xonic 10L Ultrasonic Flowmeter with Clamp On or Insertion Transducer

What is Xonic 10?

Xonic 10L Very compact and cheap but all performence is same with Xonic 100L model as 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 10L use Cross Correlation and FFT (Fast Fourier Transform) technology to make very clean ultrasonic signals.
with Auto Installation function.

Measuring pipe is from 15 ~ 6,000 mm for Clamp-On and 80 ~ 6,000 for Instertion applications. It's velocity range is 0.02 ~ 12 m/sec. Xonic 10L 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 the input to receive pressure ,level and temperature data without PLC.

Why use Xonic 10?

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.

Xonic10L 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 Xonic10L is more than 1000 :1. Xonic 10L is the best flowmeter to check minimum flow during mid-night. The Flow in mid-night is down to 1 m^3/ hr for 100mm pipe and Xonic 10L can keep the accuracy.

Xonic 10LX (Explosion Proof NEMA7)

Xonic 10L use Cross Correlation technology. The technology is able to remove most noises outside the pipe. Also, Xonic 10L can measure liquids contain heavy air and slurry.

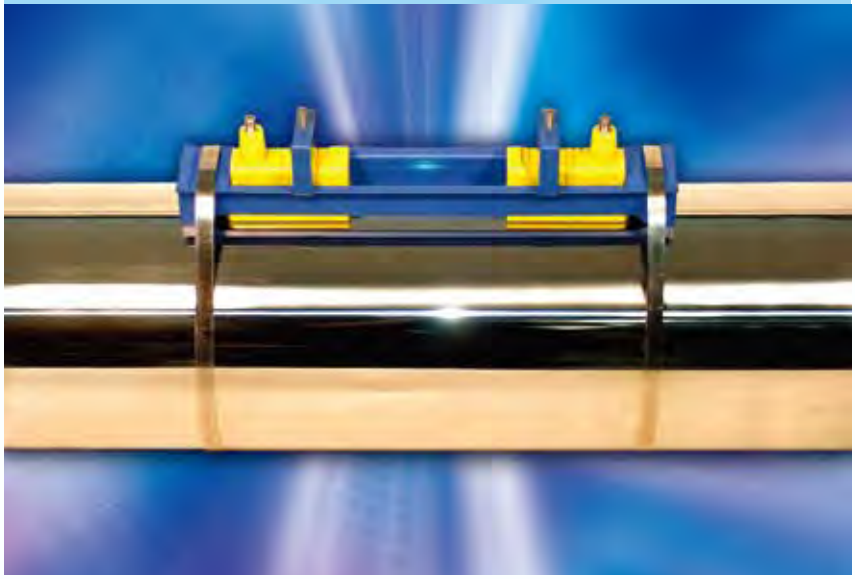
Xonic 10L has large color graphic LCD. It allows user to read the flow, total, analog input data (pressure, level, etc) and the ultrasonic signal diagrem. So user can check how flowmeter works in field without oscilloscope as diagnostic functions.

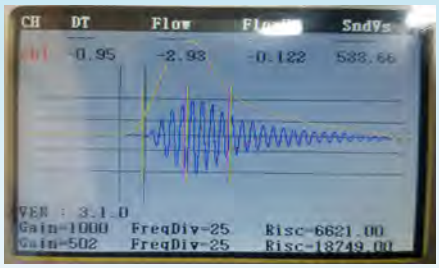
Xonic 10L is dual beam or dual path is basic model. User can use as single channel flowmeter with one pair transducers, and dual channel or dual path flowmeters with two pair transducers.

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

Performance of Xonic 10

- ☑ 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
- ☑ Remote Key Programming
- ☑ Large Color Graphic LCD Display (320x240 pixel)
- ☑ Key Lock Function
- ☑ Software for Easy Installation and Download Data
- ☑ 500,000 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® 10 Ultrasonic Flowmeter

Flow Computer and Transducers

Flow Computer

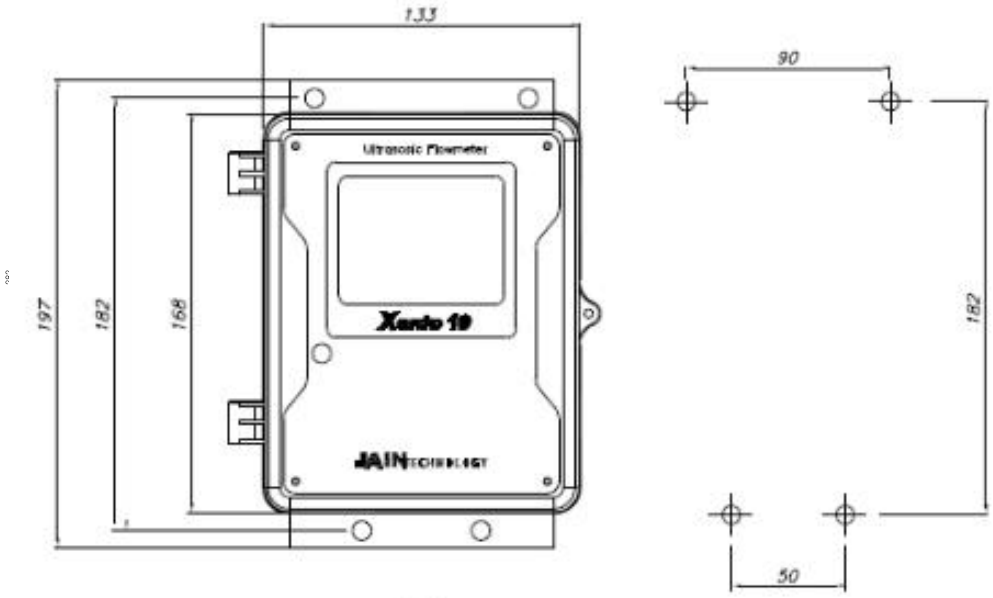
Transducers

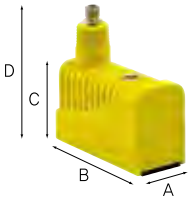
Cable and Mounting Track

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	8 Mbytes (more than 500,000 points Datalogging)
Display	Color Graphic LCD Display (Flowrate: 4.5digit, Total: 12digit) 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	12 ~ 24 Vdc with AC 100 -240 V adapter included
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

Drawings





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
X100L Ultrasonic Flowmeter for Liquid
X100LM Open Channel Ultrasonic Flowmeter
X10G Flowmeter for Gas Spool Piece
X10GX Flowmeter for Gas Ultrasonic
X5L Ultrasonic Water Meter
X5G Ultrasonic Gas Meter
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

Portable Ultrasonic Flowmeter

X100L Ultrasonic Flowmeter

***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*

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