

Open Channel Ultrasonic Flowmeter **Xonic[®] 100LM**

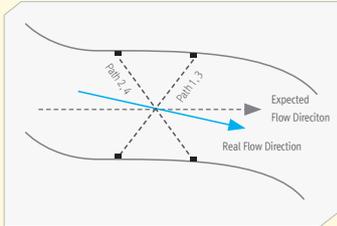
- ✓ 4 path transducers
- ✓ Cross Flow Installation
- ✓ 2 or 4 measuring path



Xonic100LM Ultrasonic Open Channel Flowmeter use ultrasonic transit-time method for flow velocity and use level meter to receive level data. Xonic 100LM not only measure velocity, but measure sound speed and can compensate temperature change by it's own diagnostic functions. Xonic 100LM is newly developed and has very sophisticated diagnostic functions for better performance.



Xonic® 100LM



System Description

Xonic 100LM use Cross- Correlation and Fast Fourier Transform technics to measure more accurate flow rate. This DSP technology makes Xonic 100LM more reliable, maintainable and accurate.

Xonic 100LM use certified new technology PATENTED “Very precise time measurement method” and also use PATENT “Transducer Design for Open Channel”. The patent is about transducers alignment method in field, and engineers can align one transducers to opposite transducer very precisely with laser pointer.

Application

Xonic 100LM measure flow velocity directly with patented 4 path transducers. Transducers are located at the end of each side to prevent any obstructions, and level is located on the top of the open channel, and accuracy is within 2% of actual flow.

Cross Flow Installation

In case of winding open channel, Xonic 100LM can use Cross Flow Installation to keep better accuracy. Path 1 & 3, Path 2 & 4 can be installed as cross path to keep better accuracy.

Specification

Principle	Anti-Round Mode, Transit-Time
Measuring Path	2 or 4 path
Measuring Width	30 meters
Accuracy	2%
Sensitivity	0.01 m/s
Data Output	4-20mADC, Relay, RS-232C / RS-485 ModBus
Data Input	4-20mADC
Datalogger	32Mbytes
Display	Large Color LCD (128x64)
Temperature Range	Electronics -20 ~ +75°C / Transducers 0 ~ +60°C
Power	110~220VAC, free voltage
Enclosure	Electronics : IP65 / Transducer : Submersible (IP68)