

Ultrasonic Clamp-on Flowmeter Xonic 100

For Different Types of Liquids

Using DSP (Digital Signal Processing) technology Xonic 100 is very precise and accurate ultrasonic flowmeter worldwide. In this flowmeter, measuring of the flow velocity is based on the comparison of the time difference between transferring of ultrasonic signals among the sensors (Time difference method/Transit-time).



What is Xonic 100?

Xonic 100 is a single channel and dual path flowmeter which uses Time difference method to measure liquids' velocities. In this product the DSP technology is adopted to eliminate all noises from the pipes or the electronic parts. Besides, cross correlation and FFT (Fast Fourier Transform) methods are used to create strong and flawless ultrasonic signals.

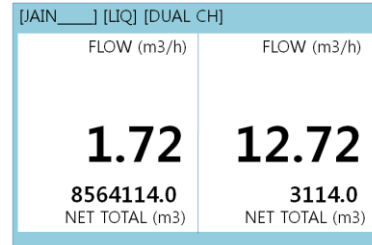
The features mentioned above cause the product to be able to measure the velocity and flow rate of the fluids containing high amount of gas bubbles or solid particles. On the contrary, the other flowmeters are very sensitive to gas bubbles or solid particles and they are useless in condition that the volume of the particles is more than 1%.

Xonic 100 can be a suitable substitute for all electromagnetic flowmeters' applications. This flowmeter is able to measure the velocity of 0.02 m/s. so, it can be used to measure the minimum night consumption and leakages.

This product is equipped by oscilloscope to make the displaying of the figure and status of the signals more practical and reliable. This flowmeter has dual channel and dual path so it is possible to use two sensors for more accurate measurement.

➤ Technical properties and application:

- Measurable Velocity: 0.02~12 m/s
- Sensitivity: 0.002 m/s
- High/low boundary appropriation: 1/1000
- Repeatability: 0.25%
- Analog input (optional): two input for pressure or temperature sensors
- Output (optional): Pulse, 4~20 mADC, Relay, RS-232, RS-485, (Modbus, optional)
- Data logger: with internal data logger with 8 Mb capacity (more than 500000 records), could be installed to GSM logger
- Display: LCD 64*128, colorful and graphical, capable to show flow rate, volume, analog input, Delta T and graphical Oscilloscope
- Operating Temperature: -20~60 °C for transmitter and -40~120 °C for sensor
- Accuracy: 1% (one pair of sensors), 0.5% (Two pair of sensors)
- Power supply: Free voltage of 110~220 V
- Oscilloscope: equipped by the AR(Anti-Round)Mode oscilloscope to have the best and most accurate measurement.
- IP: NEMA 4 (IP65) for transmitter
NEMA 7 (IP68) for sensor
- Sensor: sensors are clamp-on and their size and properties are as below:



	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	200~800
Size E	76	145	51	111	500~6000

