MehrFlow Design & Engineering Company

Ultrasonic FloweterXonic 10N

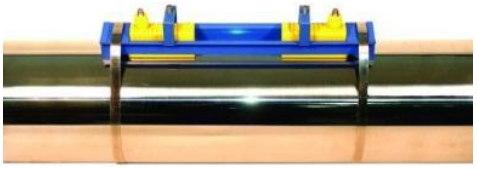
For Different Types of Liquids

Using DSP (Digital Signal Processing) technology Xonic 10N 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 10N?

Xonic 10N is a single channel and dual path flowmeter so it is possible to use two sensors for more accurate measurement. This flowmeter can be a useful substituting for all types of electromagnetic flowmeters. It is able to measure the velocity of 0.02 m/s makes it possible to use for the minimum night consumption and leakages.

Xonic 10N is a flowmeter which is installed on the pipes. This flowmeter uses time difference method for measuring the velocity of liquids. The Digital Signal Processing technology is being used in this product for eliminating noises from the pipe or the electronic parts. In addition, Cross Correlation and FFT (Fast Fourier Transform) Technologies are being applied to creating strong and flawless ultrasonic signals.



This product is equieped by oscilloscopeto make the display of the figure and status of the signals more practical and reliable.

These features cause this product to be used for the measuring of the velocity and volume of the fluid contaning high amount of gas bubbles or solid particls. On the contrary, the other flowmeters are sensitive to gas bubble or solid particls and are impractical for the volume of the particls more than 1%.

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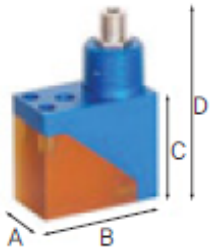
➢ Technical properties and application:

- Measurable Velocity: 0.02~10 m/s
- High/low boundary appropriation: 1/1000
- Sensitivity: 0.002 m/s
- Repeatability: 0.25%
- Easy and fast installation
- Measure from: 0.01 m/s
- Analog input (optional): one input for pressure or temperature sensors
- Operational temperature: -20~60 for transmitter and -40~120 for sensor
- Accuracy: 1% (Single Path), 0.5% (Dual Path)
- Output (optional): Pulse, 4~20 mADC, Relay, RS-232, RS-485, (Modbus, optional)
- Data logger: with internal data logger with 4 Mb capacity (more than 250000 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
- Power supply: 12-24 Volt DC, in case of using of grid electricity an adaptor will be provided
- 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



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