ULTRASONIC FLOW METER

Flow Measurement & Monitoring

UFMX ULTRASONIC FLOW METER

DESCRIPTION

UFMX is a cost efficient, high performance general purpose ultrasonic flow meter/heat meter/ultrasonic flow converter. This module unit is relatively smaller in size, enabling easy installation on a DIN rail. It is suitable for batch installation in a control panel.

UFMX ultrasonic flow meter is equipped with several types transducer for selection, pipe size from DN15 to DN6000. It adopts low voltage, multi-pulse technology to offering high accuracy and reliability.

It features a 96-segments LCD display, an isolated 4~40mA current output, 3 ways of analog input, one Serial Expanding Bus socket, 2 ways of OCT switch output, 2 ways of Pt100 RTD inputs, one isolated and surge protected RS485.

FEATURES

- ✓ Principle: Transit-time ultrasonic flowmeter
- ✓ Flow and heat measurement
- ✓ ±1% High accuracy and reliability
- ✓ Wide measuring range: DN15 to DN6000
- ✓ Strong anti-interference
- ✓ Totalizer data logging 512 days/128 months/10 years
- ✓ RS485 support wireless network, connect GPRS module to accomplish wireless transmission
- ✓ 4 keyboards operation

TECHNICAL FEATURES

Accuracy	±1%
Measuring range	DN15 to DN6000
Pipe material	Steel, Stainless steel, Cast iron, Copper, Cement pipe, PVC, Aluminum, Glass steel
Medium temperature	-30 °C to 160 °C
Turbidity	10000ppm
Flowrate	0 to ±7 m/s
Operating temperature	Converter: -20 °C to 60 °C; Transducer: -30 °C to 160 °C
Humidity	Converter: 85% RH; Transducer: Can measure under water, water depth ≤2m (transducer sealed glue)
Power supply	DC8~36V or AC10~30V
Power consumption	1.5W
Dimension	95 x 95 x 35mm (Convertor)
Cable	Twisted-pair cable (up to 50 meters); Select the RS485, transmission distance can be over 1000m

CONVERTER SIGNALS

Signal Output	1 way 4~20mA output, electric resistance 0~1K, accuracy 0.1%
	1 way OCT pulse output (Pulse width 6~1000ms, default is 200ms)
	1 way Relay output
Signal Input	3 way 4~20mA input, accuracy 0.1% acquisition signal such as temperature, press and liquid level
	Connect the temperature transducer Pt100 for heat/energy measurement
Data Interface	Insulate RS485 serial interface, Uppgrade the flowmeter software by computer, support MODBUS

TRANSDUCERS

Types		Description	Range	Temperature	
Hi Temp Clamp-on		Small, 45 × 25 × 32 mm	DN15~ DN100	-30 to 160 °C	
		Medium, 64 × 39 × 44 mm	DN50~ DN700		
		Large, 97 × 54 × 53 mm	DN300~ DN6000		
Insertion		Standard, 190 × 80 × 55mm	DN80~ DN6000	-30 to 160 °C	
		Extended, 335 × 80 × 55mm	DN80~ DN6000		
Pipe		π type	DN15~ DN25	-30 to 160 °C	
		Standard	DN32/DN40		
		Standard	DN50~ DN6000		
Temperature Transducer		Clamp-on, Pt100	≥DN50	-40 to 160 °C	Accuracy: 100 °C ± 0.8°C
		Insertion, Pt100	≥DN50		
		Insertion, Pt100, with pressure	≥DN50		
		Insertion, Pt100, small pipe diameter	<DN50		

INSTALLATION METHOD

Clamp-On

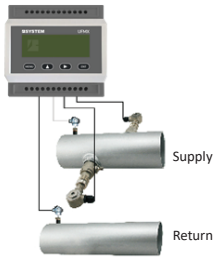
Flow measurement

Heat measurement

Insertion

Flow measurement

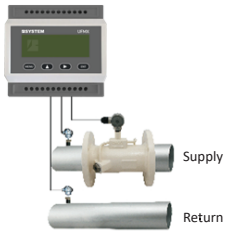
Heat measurement



Pipe

Flow measurement

Heat measurement



I-**SYSTEM** MEASUREMENT
www.ismesb.com

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