



Wall-Mount Ultrasonic Flowmeter

Wall mount type ultrasonic flow meter is designed to measure the fluid velocity of liquid within a closed conduit, transducers are non-invasive. Widely used for water supply, non-conductive liquid such as distilled water, food oil, light oil, air conditioner system to measure the heat and flow, etc.

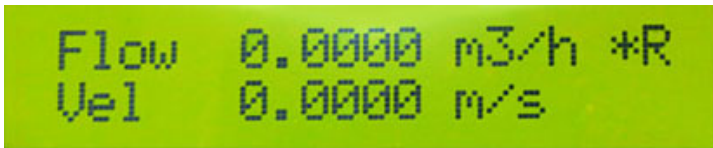
Feature

- High precise Bi-directional measurement upto 32 m/s
- Highly cost effective. No process shutdown, Simplified installation and cost advantage over magnetic flowmeter
- Nominal pipe diameter : 15 mm upto 6000 mm
- High accuracy measurement : $\pm 1\%$
- Support SD Card memory



LCD Display

Backlit LCD display instantaneous flow and positive total flow, negative total flow, net total flow, flow velocity and etc.



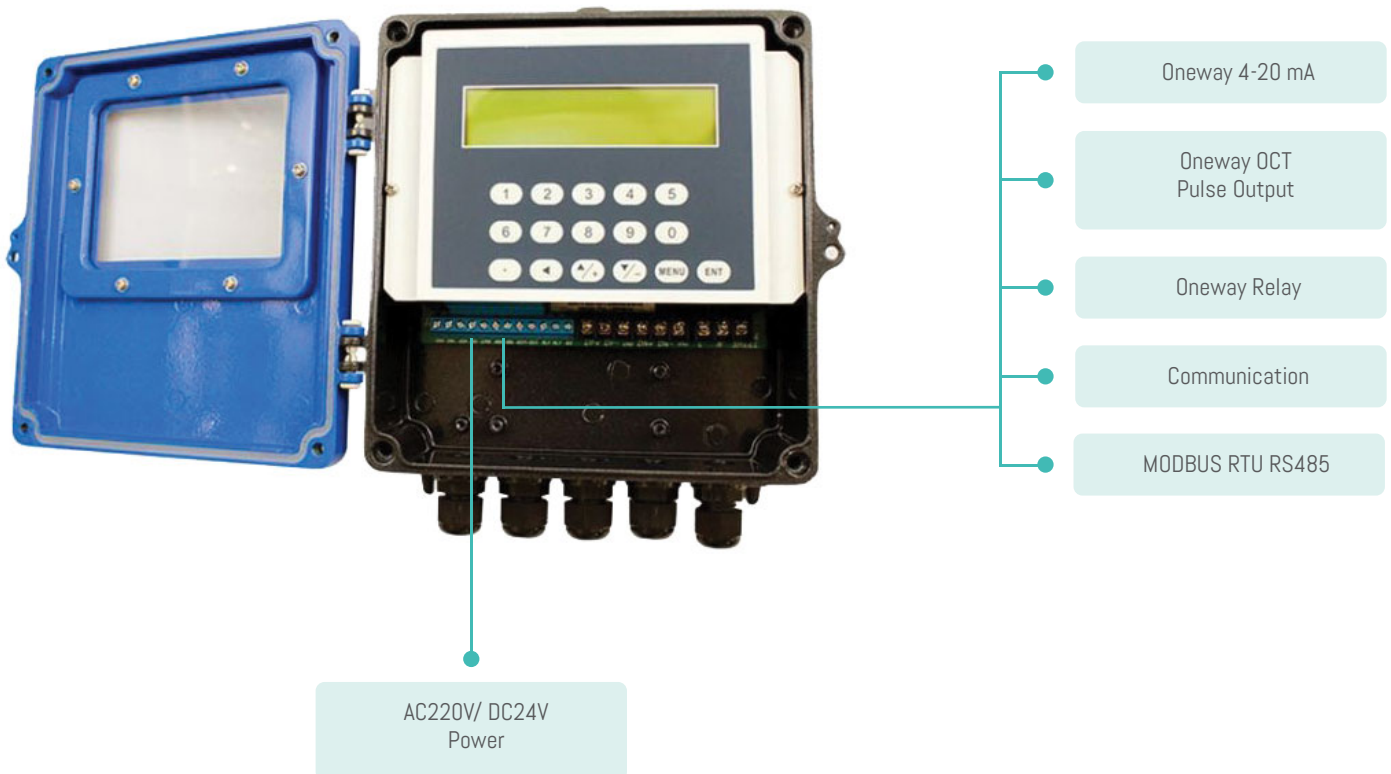
Flow unit : m³, Liter, US gallon, UK gallon, etc.
 Language : English



Optional : Explosion-Proof Case Exd IIBT5



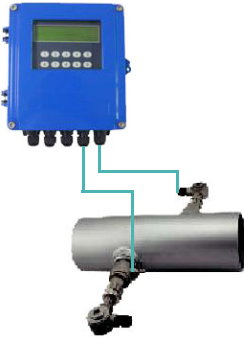
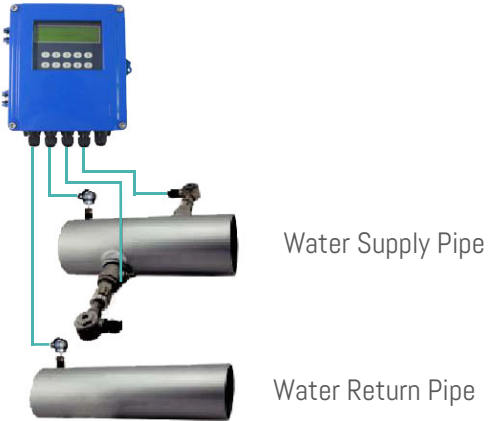


Modular Design PCB

- Strong Anti-Interference
- Multiple Output



Measurement Composition





- Installation without drying up, no pressure loss
- Easy installation and maintenance
- Mating clamp temperature sensor that can measure the temperature of the outside of tube to achieve heat measure.

Flow Measurement	Heat/ Cold Energy Measurement
 <p data-bbox="233 987 368 1016">Clamp on Type</p>	 <p data-bbox="1193 842 1398 875">Water Supply Pipe</p> <p data-bbox="1193 943 1398 976">Water Return Pipe</p>
 <p data-bbox="233 1509 368 1538">Insertion Type</p>	 <p data-bbox="1193 1312 1398 1346">Water Supply Pipe</p> <p data-bbox="1193 1458 1398 1491">Water Return Pipe</p>
 <p data-bbox="253 2011 344 2040">Pipe Type</p>	 <p data-bbox="1241 1845 1445 1879">Water Supply Pipe</p> <p data-bbox="1241 1957 1445 1991">Water Return Pipe</p>

Transducer Selection

Type	Photo	Specification	Model	Pipe Size	Temperature	Dimension
Standard Clamp on Type		Small - Size	S2	DN15 - DN100	- 30 °C to 90 °C	45 x 25 x 32 mm
		Medium - Size	M2	DN50 - DN700	- 30 °C to 90 °C	64 x 39 x 44 mm
		Large - Size	L2	DN300 - DN6000	- 30 °C to 90 °C	97 x 54 x 53 mm
High Temperature Clamp on Type		Small - Size	HS	DN15 - DN100	- 30 °C to 160 °C	45 x 25 x 32 mm
		Medium - Size	HM	DN50 - DN700	- 30 °C to 160 °C	64 x 39 x 44 mm
		Large - Size	HL	DN300 - DN6000	- 30 °C to 160 °C	97 x 54 x 53 mm
Insertion Type		Standard	TC1	DN80 - DN6000	- 30 °C to 160 °C	190 x 80 x 55 mm
		Longer Type	TC2	DN80 - DN6000	- 30 °C to 160 °C	335 x 80 x 55 mm
Pipeline Type		Standard	G3	DN15 - DN25	- 30 °C to 160 °C	SS304 Thread
		Standard	G2	DN32 - DN40	- 30 °C to 160 °C	CS Thread
		Standard	G1	DN50 - DN6000	- 30 °C to 160 °C	CS Thread

Temperature Sensor Selection

Photo	Specification	Model	Measurement Range	Temperature Range	Installation Requirement	Accuracy
	Three Wire PT100 Clamp Temperature Sensor	CT1	≥ DN50	-40°C to 160°C	No need cut	100 °C ± 0.8 °C Temperature difference < 0.1°C
	Three Wire PT100 Insertion Temperature Sensor	TCT1	≥ DN50	-40°C to 160°C	Need cut flow	
	Three Wire PT100 Insertion Pressure & Temperature Sensor	PCT1	≥ DN50	-40°C to 160°C	No need cut	
	Small Size Three Wire PT100 Insertion Type temperature sensor	SCT1	< DN50	-40°C to 160°C	Need cut flow	

Technical Performance Parameters

Accuracy	± 1% of reading at rates > 0.2 mps
Repeatability	0.2%
Principle	Transmit Time
Velocity	± 32 m/s
Pipe Size	DN15 - DN6000 mm
Display	LCD with backlight, display accumulated flowheat, instantaneous flowheat, velocity Time and etc.
Signal Output	1 way 4-20 mA output
	1 way OCT pulse output
	1 way relay output
Signal Input	3 way 4-20 mA input achieve to heat measurement by connecting PT100 platinum resistor
Other Functions	Automatically record the positive, negative, net totalizer flow rate and heat. Automatically record the time of power-on/off and flow rate of the last 30 times. Replenish by hand or read the datas through MODBUS communication protocol.
Pipe Material	Carbon Steel, Stainless Steel, Cast Iron, Cement Pipe, Copper, PVC, Aluminum, FRP and etc. Liner is allowed
Straight Pipe Section	Upstream : 10D, Downstream : 5D, From the pump : 30D (D means outer diameter)
Liquid Types	Water, Sea Water, Industrial Sewage, Acid& Alkaline Liquid, Alcohol, Beer, All kind of Oils Which can transmit ultrasonic single uniform liquid.
Liquid Temperature	Standard : -30 °C to 90 °C, High Temperature : -30 °C to 160 °C
Liquid Turbidity	Less than 10000 ppm, with a little bubble
Flow Direction	Bi-Directional measuring, net flow/ heat measuring
Environment Temperature	Main Unit : -30 °C to 80 °C
	Transducer : -40 °C to 110 °C , Temperature Transducer : Select on Enquiry
Environment Humidity	Main Unit : 85% RH
	Transducer : Standard is IP65, IP68 (Optional)
Cable	Twisted Pair Line, Standard length is 5 m, can be extended to 500 m (not recommended), RS485 Interface, Transmission distance up to 1000 m
Power Supply	AC220V and DC24V
Power Consumption	Less than 1.5W
Communication	MODBUS RTU RS485



Model Select

	WMU100F	X	XXX	XXXX	X	XXX	XXX	XXXX	X
Transmitter	Wall Mount	W							
	Ex-proof	D							
Transducer	Clamp on Type Small DN15 - DN100		S2						
	Clamp on Type Medium DN50 - DN700		M2						
	Clamp on Type Large DN300 - DN6000		L2						
	High-Temp Clamp on Type Small DN15 - DN100		HS						
	High-Temp Clamp on Type Medium DN50 - DN700		HM						
	High-Temp Clamp on Type Large DN300 - DN6000		HL						
	Insertion Type Standard DN80 - DN6000		TC1						
	Insertion Type Longer Type DN80 - 6000		TC2						
	Pipeline Type Standard DN15 - DN25		G3						
	Pipeline Type Standard DN32 - DN40		G2						
Pipeline Type Standard DN50 - DN6000		G1							
Diameter	DN15 to DN6000 mm			Dia					
Material	Carbon Steel				0				
	Stainless Steel				1				
	Cast Iron				2				
	FRP				3				
	PVC				4				
	Cement				5				
	Other				6				
Nominal Pressure	Nominal Medium Pressure					MPa			
Cable Length	Twisted Pair Line, Standard length is 5 m, can be extended to 500 m (not recommended)						m		
Temperature Sensor	No Temperature Sensor							N	
	Clamp on Type							CT1	
	Insertion Type							TCT1	
	Insertion with Pressure Transmitter Type							PCT1	
	Small Type Temperature Sensor							SCT1	
SD Card Storage	With this Function								0
	Without this Function								1

SD Card Data Storage is Optinal
Store time and date, instant flow, total flow and
signal strength etc.

