

FMU832 Wall Mounted Ultrasonic Flowmeter/Heat Meter

MAIN FEATURES

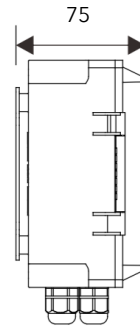
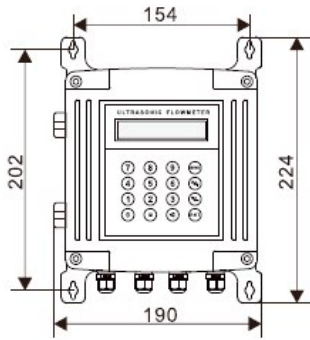
- Easy installation and no maintenance is needed.
- High accuracy within $\pm 0.5\%$
- GPRS-based design, multiple signal output, achieve remote monitoring.
- Achieve heat measurement by connecting 3-wired heat transducers PT100.



SPECIFICATION

Products name		Ultrasonic flow meter/heat meter	
Main unit	Accuracy	Better than $\pm 1\%$	
	Repeatability	Better than 0.2%	
	Principle	Transit-time measuring principle	
	Measurement Period	500ms	
	Display	LCD with backlight, display accumulated flow/heat, instantaneous flow/heat, velocity, time etc.	
	Output	Analogue output: 4-20mA or 0-20mA current output. Impedance 0-1kW. Accuracy 0.1%.	
		OCT output: Frequency signal (1~9999HZ)	
Relay output: over 20 source signal (no signal, reverse flow etc.)			
		RS485 serial port	
	Input	Three analogue input Three-wire PT100 resistor input (optional)	
	Other functions	Automatically record the totaliser data of the last 64 days / 64 months / 5 years; The power-on time and corresponding flow rate of the last 64 power on and off events. Allow manual or automatic flow loss compensation	
pipe	material	Steel, stainless steel, cast iron, cement pipe, copper, PVC, aluminum, FRP etc. Liner is allowed	
	Size	15-6000mm	
	Straight pipe section	In the upstream it must be beyond 10D, in the downstream it must be beyond 5D, in the upstream the length must be beyond 30D from the access of the pump. (D stands for pipe diameter)	
Liquid	Types	Water, sea water, industrial sewage, acid & alkali liquid, alcohol, beer, all kinds of oils which can transmit ultrasonic single uniform liquid	
	Temperature	Standard: -30C - 90C ,High-temperature:-30C - 160C	
	Turbidity	Less than 10000ppm, with a little bubble	
	Flow Direction	Bi-directional measuring, net flow/heat measuring	
Environment	Temperature	Main Unit: -30C - 80C	
		Transducer: -40C - 110C, Temperature transducer: select on enquiry	
	Humidity	Main Unit: 85% RH	
Transducer: water-immersible, water depth less than 3m			
Cable	Twisted Pair Line, standard length of 20m, can be extended to 500m (not recommended); Contact the manufacturer for longer cable requirement. RS-485 interface, transmission distance up to 1000m		
Power Supply	AC220V or DC24V		
Power Consumption	Less than 1.5W		
Protocols	MODBUS, M-BUS, Fuji extended protocol and other factory protocol		

DIMENSION



Unit: mm

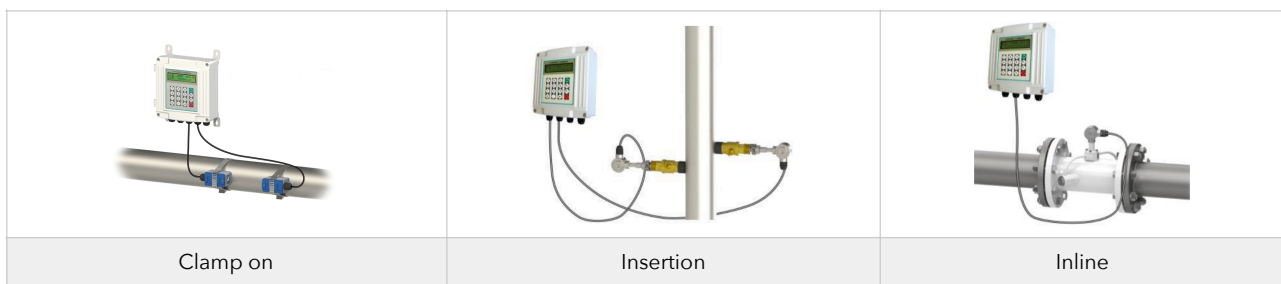
SENSOR OPTIONS

Flow sensor	Picture	Model	Measuring range	Temperature
Clamp on		TS-2 (small)	DN25-100	-30 ~ 90°C
		TM-1 (medium)	DN50-700	
		TL-1 (large)	DN300-6000	
High temp. Clamp on		TS-2-HT (small)	DN25-100	-30 ~ 160°C
		TM-1-HT (medium)	DN50-700	
		TL-1-HT (large)	DN300-6000	
Insertion		TC-1 (standard)	DN50-6000	-30 ~ 160°C
		TC-2 (extended)		
Inline		TP-1 (parallel)	DN80-6000	-30 ~ 160°C
		Standard	DN15-1000	

OPTIONAL PT100 SENSORS FOR HEAT MEASUREMENT

Temperature sensor	Picture	Model	Measuring range	Temperature	Cut off water
Clamp on		CT-1	DN50-6000	-40 ~ 160°C	No need
Insertion		TCT-1	DN50-6000	-40 ~ 160°C	Need
Insertion under pressure		PCT-1	DN50-6000	-40 ~ 160°C	No need
Insertion small sizes		SCT-1	< DN50	-40 ~ 160°C	Need

APPLICATION EXAMPLE



Clamp on

Insertion

Inline

ORDER CODE

FMU832	Wall mounted ultrasonic flowmeter/heat meter						
	CODE	Sensor type					
	A	Standard clamp on sensor					
	B	High temperature clamp on sensor					
	C	Mounting bracket sensor					
	D	High temperature mounting bracket sensor					
	E	Segment sensor type					
	F	Insertion type					
	CODE	Nominal diameter					
	D15	DN15mm					
	D20	DN20mm					
					
	D6000	DN6000					
	CODE	Voltage					
	D	DC8~36V (DC 24V)					
	A	AC85~264V					
	CODE	Working temperature					
	1	-30 °C -90 °C					
	2	-30 °C -160 °C					
	3	Other customized					
	CODE	Signal output					
	S1	1 channel 4-20mA current output					
	S2	1 way OCT pulse output					
	S3	1 relay output					
	S4	RS485					
	C	Other customization					
	CODE	Other parameters					
	A	Flow range_					
	B	Normal pressure_Kpa					
	C	Protection level_					
	D	Explosion type_					
	E	Signal input_					
	F	Other requirements					
FMU832	A	D15	D	1	S1	BC	Order example