MarMonix
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Product Datasheet

MFU-6200

Wall Mounted Ultrasonic Flow meter

Marmonix MFU-6200

Features:

- Simplified installation
- Virtually maintenance free
- No process shot-down
- Cost advantage over magnetic flowmeter
- SD card optional

Overview:

The MARMONIX Wall Mounted Ultrasonic Flow meter MFU-6200 widely used for water supply, Non-conductive liquid, such as the distilled water, food oil and light oil, boiler fuel oil engine for diesel measurement, and air conditioner system to measure the flow and heat. Food and beverage, pharmaceutical, ballast water, fuel consumption and other processes on-board ships, etc.

Applications:

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Product features:

High precise Bi - directional Measurement

Highly Dynamic Flow measurement

Highly Cost effective

- Simplified installation
- Virtually maintenance free
- No process shut-downs
- Cost advantage over magnetic flow meter

Nominal Pipe Diameters

15mm up to 6000mm

Realizable Heat Measurement

Clamp on type and insert type transducers are optional

Energy unit: Giga joule, Kilocalorie, Kwh, BTU are optional

Hazardous Area Approved

Suitable for in explosive areas

LCD Display, Easy to Read

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(Standard), Italian & Turkish (optional)

SD Card Optional

Store time and date, instant flow, total flow and signal strength etc.

Realizable GPRS Function

Compatible With Many Material Pipes

Carbon steel pipe

Galvanized pipe

Stainless steel pipe

FRP pipe

Copper pipe

SPECIFICATION

Item	Specification
Accuracy	1% of reading at rates >0.2mps
Repeatability	0.2%
Principle	Transmit time
Velocity	±32m/s
Pipe Size	Dn15mm-Dn6000mm
Display	LCD with backlight, Display accumulated flow/heat, instantaneous flow/heat, velocity, time etc.
Signal Output	1 way 4-20mA output
	1 way OCT pulse output
	1 way relay output
Signal Input	3 way 4-20mA 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 time. Replenish by hand or read the data through Modbus communication protocols.
Pipe material	Carbon steel, Stainless steel, cast iron, cement pipe, copper, PVC, Aluminum, FRP etc. Liner is allowed
Straight Pipe section	Up steam: 10D; down steam: 5D; From the pipe:30D; (D means outer diameter)
Liquid Types	Water, sea water, industrial sewage, acid and alkali liquid, alcohol, beer all kinds of oil which can transmit ultrasonic single uniform liquid.
Liquid Temperature	Standard: -30ºC~90ºC, High-temperature: -30ºC~160ºC
Liquid Turbidity	Less than 10000ppm, with a little bubble
Flow Direction	Bi-directional measuring, net flow/flow heat measuring
Environment temperature	Main unit: -30ºC ~ 80ºC
	Transducer: -40ºC 110ºC, Temperature transducer: select on enquiry
Environment Humidity	Main unit: 85% RH
	Transducer: standard is IP65, IP68 (optional)
Cable	Twisted Pair line, Standard length of 5m, 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 and DC24V
Power consumption	Less than 1.5W
Communication	MODBUS RTU RS485

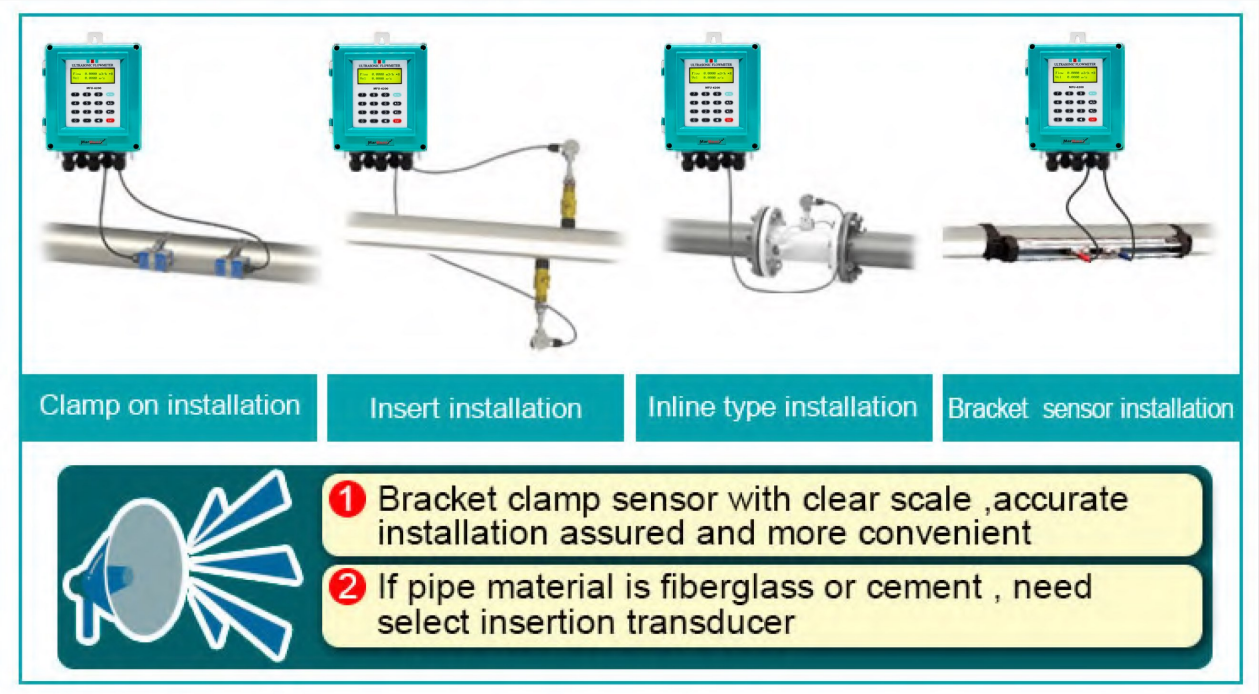
Transducer Selection

Type	Picture	Specification	Measuring range	Temperature range
Clamp on type		Small-size	DN15mm~DN100mm	-30℃~90℃
		Middle-size	DN50mm~DN700mm	-30℃~90℃
		Large-size	DN300mm~DN6000mm	-30℃~90℃
High temperature clamp on type		Small-size	DN15mm~DN100mm	-30℃~160℃
		Middle-size	DN50mm~DN700mm	-30℃~160℃
		Large-size	DN300mm~DN6000mm	-30℃~160℃
Insert type		standard length type Wall thickness ≤20mm	DN50mm~DN6000mm	-30℃~160℃
		Extra-length type Wall thickness ≤70mm	DN50mm~DN6000mm	-30℃~160℃
		Parallel type used for narrow installation space	DN80mm~DN6000mm	-30℃~160℃
Inline type		π type inline	DN15mm~DN32mm	-30℃~160℃
		Flange type	DN40mm~DN1000mm	-30℃~160℃

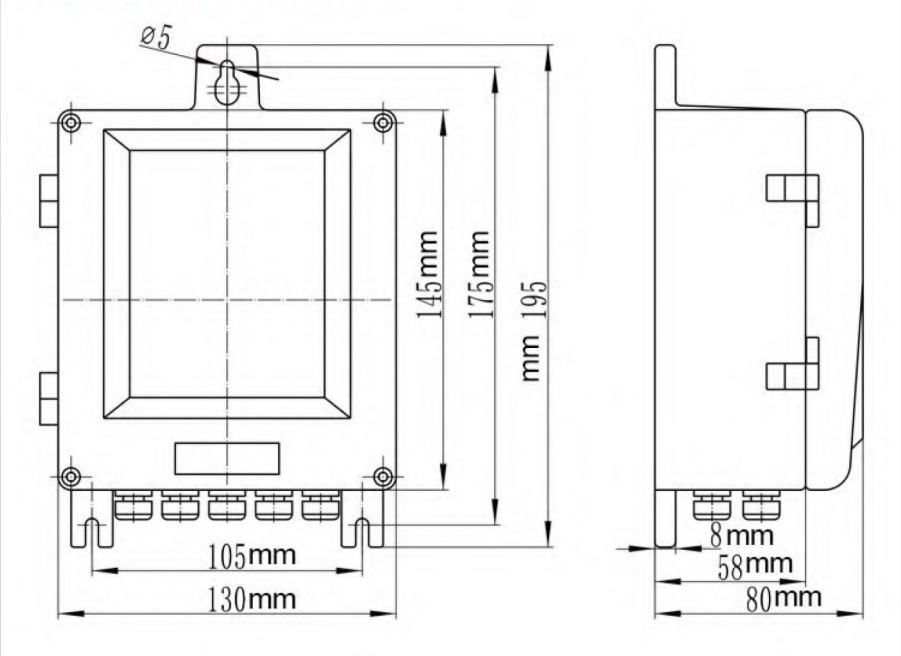
Temperature Sensors Model

PT100	Picture	Accuracy	Cut off water	Measuring range	Temperature
clamp on		±1%	No	DN50mm~DN6000mm	-40℃~160℃
Insertion sensor		±1%	Yes	DN50mm~DN6000mm	-40℃~160℃
Insertion type installation with pressure		±1%	No	DN50mm~DN6000mm	-40℃~160℃
Insertion type for small pipe diameter		±1%	Yes	DN15mm~DN50mm	-40℃~160℃

Installation Selection



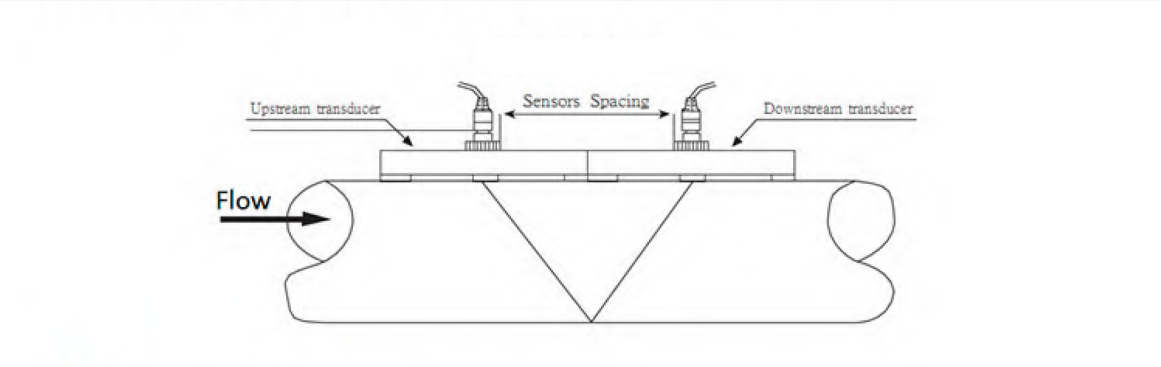
Size Chart



Transducers Installation

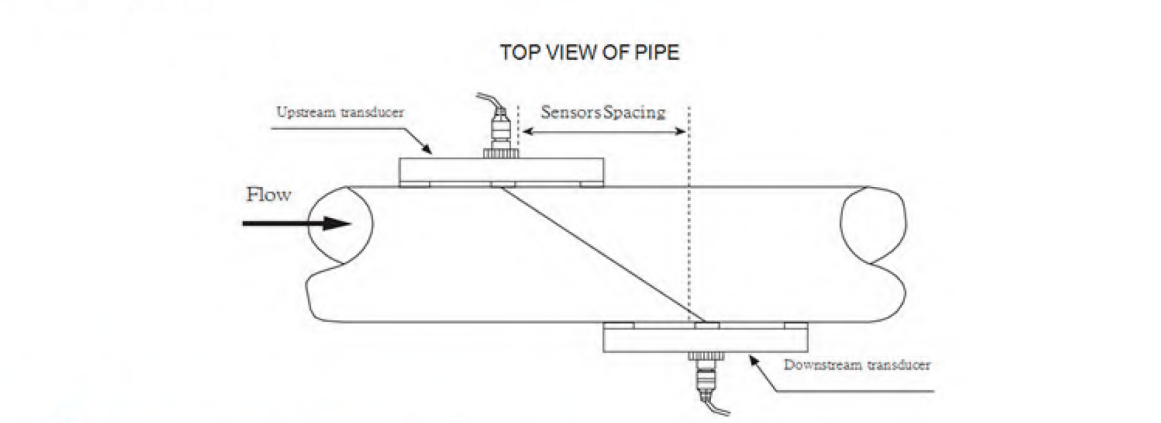
1.V-method Installation

V-method Installation is the most widely used mode for daily measurement with pipe inner diameters ranging from 15 mm to 200 mm. It is called reflective mode.



2.Z-method Installation

Z- method is commonly used when the pipe diameter is between 300 mm and 500 mm.



3.W-methods Installation

W-method is usually used on plastic pipes with a diameter from 15 mm to 100mm