

# MFU-6400

### **Portable Ultrasonic Flow meter Marmonix**

### Overview:

Portable Ultrasonic Flow meter MFU-6400 is suitable for on-line calibration and inspection of liquid flow in various industrial sites. Wide Measuring range: DN15mm-DN6000mm, non-contact measuring method, no moving mechanical parts, free from system pressure and adverse environment. Built-in thermal integrated printer, widely used in petrochemical, metallurgy, electricity, water conservancy, heating, air conditioning billing, energy monitoring and other industrial production, backlit LCD and front panel operation.





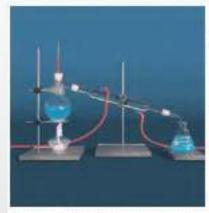
### Features:

- Repeatability: better than 0.2%
- Accuracy: better than ±1%
- Chinese & English display, easy to operate
- Built-in rechargeable Ni-MH battery
- Built-in mini thermal printer with instant and timing print function
- Uplink over 20 measuring data to computer or internet



### **APPLICATION**

### Uniform liquid which ultrasonic waves can propagate



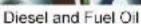




Ultrapure Water and Liquids Water / Glycol Solutions

Cooling and Heating Water







Wastewater



Chemicals

### **Built Mini Thermal Printer**

Real time and Timing Printing



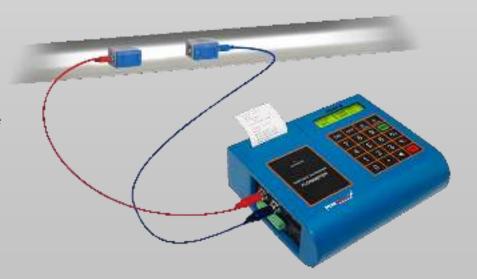


# Specification:

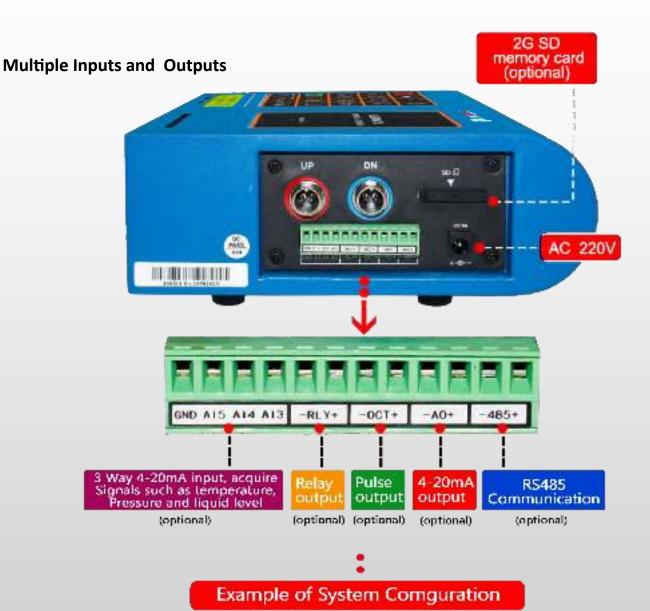
Item	Specification			
Main unit	2 line × 2 characters			
	Working temperature -20°C - 60°C			
	Mini thermal printer with 24 line character output			
	4×4+2 pushbutton keypad			
	RS485 serial port			
Transducers	TS-1: small size transducer (magnetic) for pipe size: DN15-100mm, liquid temperature ≤ 110°C			
	TM-1: Medium size transducer (magnetic) for pipe size: DN50-1000mm, liquid temperature ≤ 110°C			
	TL-1: Large size transducer (magnetic) for pipe size: DN300- 6000mm, liquid temperature ≤ 110°C			
Liquid Types	Water, seawater, industrial sewage, acid and alkali liquid, various oils etc. Liquid which can transmit sound wave.			
Flow velocity range	0-&plusmn10m/s			
Accuracy	Better than ±1%			
Power Supply	Built-in rechargeable Ni-MH battery (for 20 hours operation) or AC 220V			
Power consumption	1.5W			
Charging	Intelligent charging with AC 220V. After charging sufficiently, it automatically stop and display green light			
Weight	Net weight: 2.5kg (main unit)			
Remarks	With the high strength carrying case suitable for normal and harsh environment			

# Quick and easy Installation

Clamp on transducer Save time no pipe cutting or process shutdown







# Signal cable Transducer A to 20mA DC Paperless recorder A to 20mA DC Parae output Relay Relay





### **Backlit LCD and Front Panel Operation**



### All necessary including

- signal cable
- Clamps and chains
- AC power recharger
- 2 rolls of paper
- **Tape**

### **Common Pipe Materials**

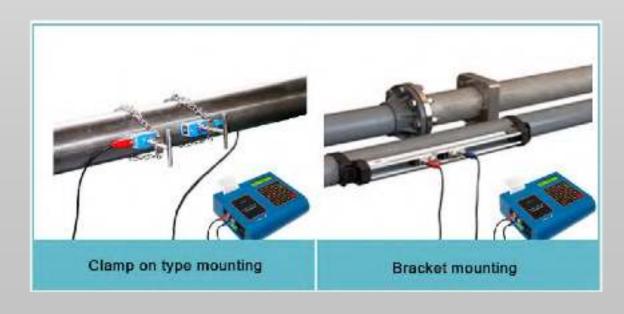




## **Transducer Selection**

# One or more pairs of transducer can be selected

Туре	Picture	Specification	Measuring range	Temperature range
Clamp on type		Small-size	DN15mm~DN100mm	-30°C-90°C
		Middle-size	DN50mm-DN700mm	30℃-90℃
		Largo-sizo	DN300mm-DN6000mm	-30℃-90℃
High temperature clamp on type	0-0	Small size	DN15mm~DN100mm	-3070-16070
	-	Middle-size	DN50mm-DN700mm	-30℃~160°C
	*	Large-size	DN300mm - DN8000mm	-30℃-160℃
Mounting bracket clamp on		Small-size	DN15mm- DN100mm	-30℃-90℃
	410	Middle size	DN50mm-DN300mm	30°C~90°C
		King-size	DN300mm-DN700mm	30 €~90 €

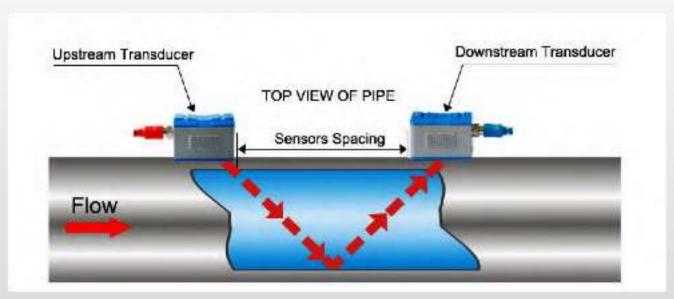




# **INSTALLATION**

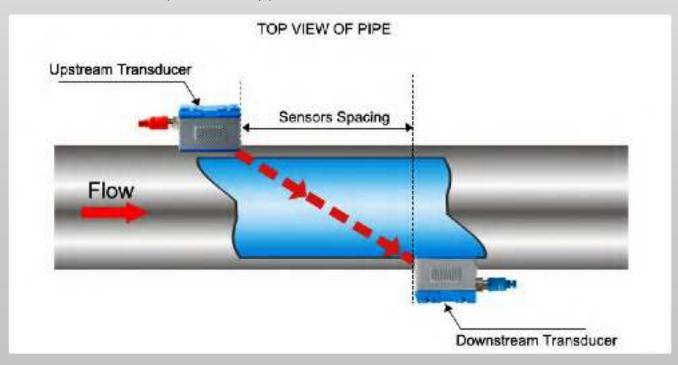
### V-method Installation

V-method installation is the most widely used mode for daily measurement with pipe inner diameter ranging from DN15mm ~ DN200mm. It is also called reflective mode or method.



### **Z-method Installation**

Z-method installation is commonly used when the pipe diameter is above DN300 mm.





# **Piping Requirements**

