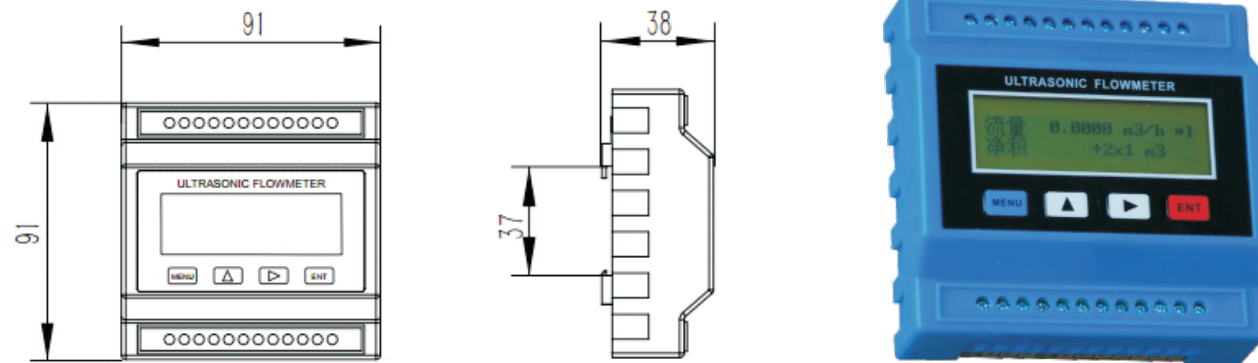


Ultrasonic Flow Meter

UF2000-M



DESCRIPTION

UF2000-M 'converter is small in size, full functions, the price is low, the guide rail installation, suitable for batch installed on the meter box or power distribution cabinet.

FEATURES

- 1.High Accuracy: 1%
- 2.Wide measuring range Several types transducer for selection, pipe size from Dn15mm to Dn6000mm
- 3.High Reliability Adopt low voltage, multi-pulse technology to improve accuracy, useful life and reliability.
- 4.Strong Anti-interference Dual-balance signal differential receiver/driver circuit to avoid interference of converter, TV tower, high voltage line etc.

5.Powerful Recording Function Automatically record the following data:

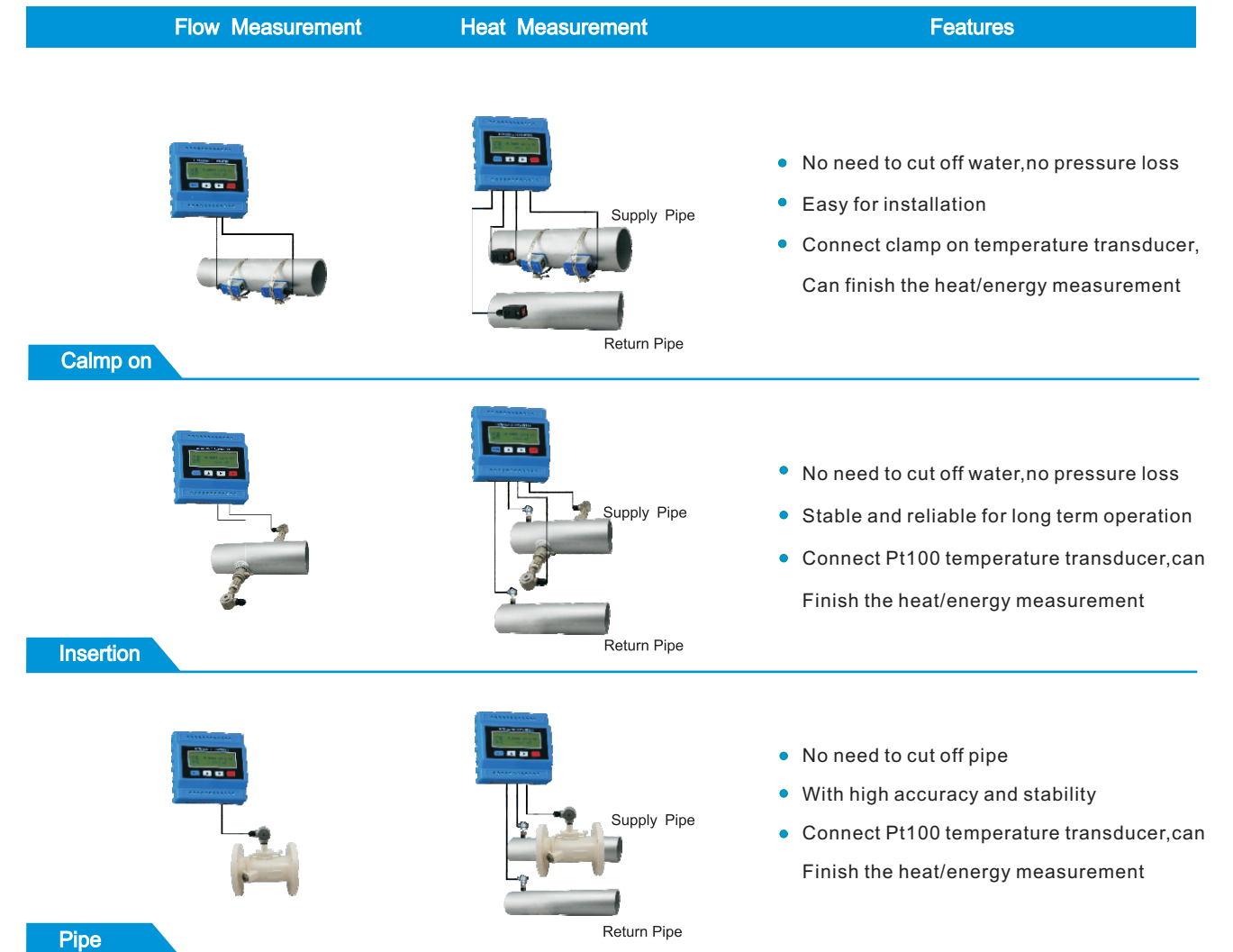
- a.The totalizer data of the last 512 days/128 months/10 years
- b.The time and corresponding flow rate of the last 64 times of power on and off events
- c.The working status of the last 32 days

6.Support Heat Measurement Connect the temperature transducer , can finish the heat/energy measurement












7.Support SD card Memory:Optional SD card

8.This flowmeter can be virtually applied to a wide range of measurement.A variety of liquid application can be accommodated:ultra-pure liquids,potable water,chemicals,raw sewage,reclaimed water,cooling water,river water,plant effluent.etc





MEASURING DIAGRAM



OPTIONAL TRANSDUCERS


Types	Picture	Spec.	Model	Measurement Range	Temperature	Dimension
Clamp on		Small Size	TS-2	DN15~DN100	-30~90°C	45X25X32mm
		Medium Size	TM-1	DN50~ DN700	-30~90°C	64X39X44mm
		Large Size	TL-1	DN300~ DN6000	-30~ 90C	97X54X53mm
High temp. clamp on		Small Size	TS-2-HT	DN15~DN100	-30~160C	45X25X32mm
		Medium Size	TM-1-HT	DN50~ DN700	-30~160C	64X39X44mm
		Large Size	TL-1-HT	DN300~ DN6000	-30~160C	97X54X53mm
Insertion		Standard	TC-1	DN80~ DN6000	-30~160C	190X80X55mm
		Lengthen	TC-2	DN80~ DN6000	-30~160C	335X80X55mm
Pipe		n type	G3	DN15~DN25	-30~160C	Pls refer to detailed pipe dimensions
		Standard	G2	DN32~ DN40	-30~160C	
		Standard	G1	DN50~ DN6000	-30~160C	

OPTIONAL TEMPERATURE TRANSDUCERS

PICTURE	SPECIFICATION	MODEL	MEAS.RANGE	TEMPERATURE	CUT OF WATER	ACCURACY
	Clamp on temperature Transducer Pt100	CT-1	≥DN50	-40~160°C	No	100°C ± 0.8°C
	Insertion temperature Transducer Pt100	TCT-1	≥DN50	-40~160°C	Yes	
	Insertion Pt100 Installation with pressure	PCT-1	≥DN50	-40~160°C	No	
	Insertion Pt100 Small size pipe diameter	SCT-1	< DN50	-40~160°C	Yes	

Parts Descriptions

Front View




Wiring Diagram

OCT1- OCT1+

TX2	T2	GN	T1	TX1	ALS	A4	A3	OCT1-	OCT1+	RLY-	RLY+
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24V	24V	485V	485-	AO-IN	AO	UP+	UP-	GND	DN+	DN-	GND
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Back View



- Dimensions:92×90×34mm
- LCD Display:60×19mm
- 4 keyboard operation

- Installation Method: Guide Rail(width is 35mm)

Data Sheet

Items		Performance & Parameter
Convertor	Principle	Transit- time ultrasonic flowmeter
	Accuracy	±1%
	Display	2X20 character LCD with backlight, support the language of Chinese, English and Italy
	Signal Output	1 way 4~20mA output, electric resistance 0~ 1K, accuracy0. 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, can finish the heat/energy measurement
Special Cable	Data Interface	Insulate Rs485 serial interface, upgrade the flowmeter software by computer, support the MODBUS
		wisted-pair cable, generally, the length under 50 meters ; Select the RS485, transmission distance can over 1000m
Pipe Installation Condition	Pipe Material	Steel, Stainless steel, Cast iron, Copper, Cement pipe, PVC, Aluminum, Glass steel product, liner is allowed
	Pipe Diameter	15~ 6000mm
	Straight Pipe	Transducer installation should be satisfied: upstream10D, downstream 5D, 30D from the pump
Measuring Medium	Type of Liquid	Single liquid can transmit sound wave, such as Water (hot water, chilled water, city water, sea water, waste water, etc.); Sewage with small particle content; Oil (crude oil, lubricating oil, diesel oil, fuel oil, etc.); Chemicals (alcohol, etc.) ; Plant effluent; Beverage; Ultra-pure liquids, etc.
	Temperature	-30~160°C
	Turbidity	No more than 10000ppm and less bubble
	Flowrate	0~±7m/s
Working Environment	Temperature	Convertor: -20~60C; Flow Transducer: -30~ 160C
	Humidity	Convertor: 85%RH; Flow Transducer: can measure under water, water depth^2m (tansducer sealed glue)
Power Supply		DC8~36V or AC85~264V (optional)
Power Consumption		1.5W
Dimension		91*91*38mm(convertor)

ORDERING CODE

	Convertor	Transducer	Diameter	Pipe material	Pressure	Cable length	Tem.transducer
GUF120—	<input type="checkbox"/>	<input type="checkbox"/>	DN <input type="checkbox"/> (mm)	<input type="checkbox"/>	<input type="checkbox"/> MPa	<input type="checkbox"/> m	<input type="checkbox"/>
	M(model)	TS		0 Carbon steel			None
		TM		1 Stainless steel			CT-1
		TL		2 Cast iron			TCT-1
		TS-HT		3 Glass fiber reinforced			PCT-1
		TM-HT		4 PVC			SCT-1
		TL-HT		5 Cement			
		TC-1		6 Others			
		TC-2					
		G					