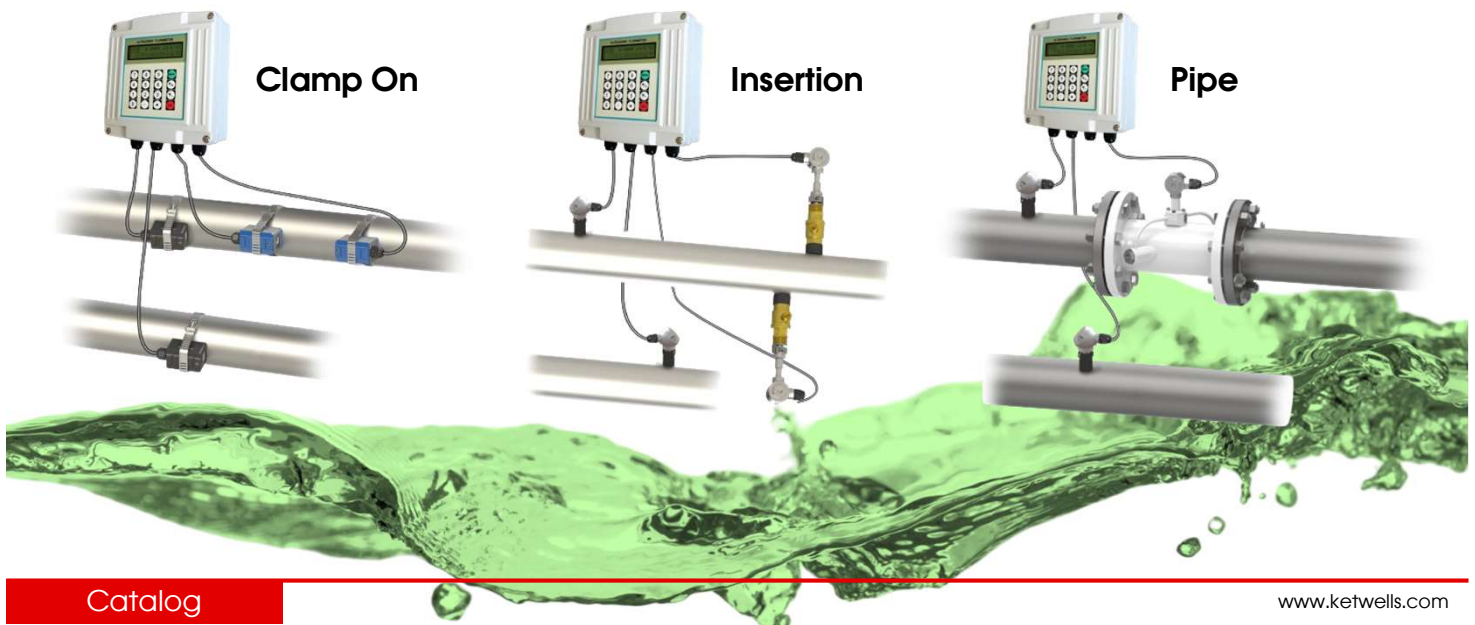


ULTRASONIC FLOW METER

KWF-2000S SERIES

KWF-2000S Series flow meter can be virtually applied to a wide range of measurement. A variety of liquid applications can be accommodated ultra-pure liquids, potable water, chemicals, raw sewage, reclaimed water, cooling water, river water, plant effluent. etc.

- High Accuracy
- Wide Measuring Range
- High Reliability
- Strong Anti-interference
- Powerful Recording Function
- Support Heat Measurement
- Support SD Card Memory



Measuring Diagrams

Clamp On



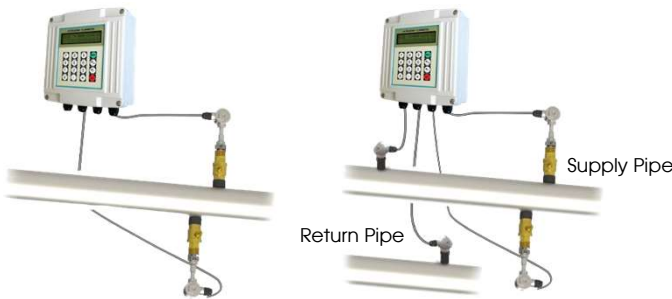
Flow Measurement

Heat Measurement

Features

- No need to cut off water, no pressure loss.
- Easy for installation.
- Connect clamp on temperature transducer, can finish the heat/energy measurement.

Insertion



Flow Measurement

Heat Measurement

Features

- No need to cut off water, no pressure loss.
- Stable and reliable for long term operation.
- Connect Pt100 temperature transducer can finish the heat/energy measurement.

Pipe



Flow Measurement

Heat Measurement

Features

- Need to cut off pipe.
- With high accuracy and stability.
- Connect Pt100 temperature transducer can finish the heat/energy measurement.

Convertor (Optional)

According to different installation condition, pls choose relative convertor



- Wall mounted CAM-3000SW
- Wall mounting installation
- Dimension: 170×180×56mm
- Power supply: DC8~36V or AC85~264V







- Panel mounted CAM-3000SS
- Instrument cabinet installation
- Dimension: 170×180×56mm
- Hole dimension: 152×76mm
- Power supply: DC8~36V or AC85~264V







- Explosion-proof CAM-3000SD
- Explosion-proof installation
- Dimension: 298×298×110mm
- Power supply: DC8~36V or AC85~264V
- Grade: D II BT4

Flow Transducers

Type	Picture	Spec.	Model	Measuring Range	Temperature	Dimension
Clamp on		Small	TS-2	DN15...DN100	-30...90 °C	45 x 25 x 32 mm
		Medium	TM-1	DN50...DN700	-30...90 °C	64 x 39 x 44 mm
		Large	TL-1	DN300...DN6000	-30...90 °C	97 x 54 x 53 mm
High Temp. Clamp On		Small	TS-2-HT	DN15...DN100	-30...160 °C	45 x 25 x 32 mm
		Medium	TM-1-HT	DN50...DN700	-30...160 °C	64 x 39 x 44 mm
		Large	TL-1-HT	DN300...DN6000	-30...160 °C	97 x 54 x 53 mm
Insertion		Standard	TC-1	DN80...DN6000	-30...160 °C	190 x 80 x 55 mm
		Extended	TC-2	DN80...DN6000	-30...160 °C	335 x 80 x 55 mm
Pipe		Standard	G1	DN50...DN6000	-30...160 °C	Please refer to detailed pipe dimensions
		Standard	G2	DN32...DN40	-30...160 °C	Please refer to detailed pipe dimensions
		π Type	G3	DN15...DN25	-30...160 °C	Please refer to detailed pipe dimensions

Temperature Transducers

Type / Spec.	Picture	Model	Measuring Range	Temperature	Cut of Water	Accuracy
Clamp On P1100		CT-1	≥ DN50	-40...160 °C	No	100 °C ± 0.8 °C
Insertion P1100		TCT-1	≥ DN50	-40...160 °C	Yes	100 °C ± 0.8 °C
Insertion P1100 with Pressure		PCT-1	≥ DN50	-40...160 °C	No	100 °C ± 0.8 °C
Insertion P1100 Small Size Pipe Diameter		SCT-1	< DN50	-40...160 °C	Yes	100 °C ± 0.8 °C

SD Card Memory

The SD card memory can be expanded to 2GB, which can achieve the ultrasonic flowmeter measurement data mass storage, can solve the problems for wall-mounted flowmeter measurement data stored, reading, and processing inconvenience, can completely replace manual meter reading, no paper records instrument.

In addition, the SD memory card measurements data, can be used by our company's "Flow data analysis, statistical software" for processing, including the tabulation, statistical, data analysis, printing reports, production flow curve.



SD Card Optional

Specifications

Items	Performance & Parameter	
Convertor	Principle	Transit-time ultrasonic flowmeter.
	Accuracy	±1%
	Display	2x20 character LCD with backlight, support the language of Chinese, English, Italy.
	Signal Output	1way 4...20mA output, electric resistance 0...1K, accuracy 0.1%
		1 way OCT pulse output (Pulse width-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.
	Data Interface	Insulate RS485 serial interface, upgrade the flowmeter software by computer, support the MODBUS.
Special Cable	Twisted-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: upstream 10D, 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 con tent, oil(curde 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 10000 ppm and less bubble
	Flow Rate	0...±7m/s
Working Environment	Temperature	Convertor: - 20...60 °C; Flow Transducer: - 30...160 °C
	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	170 x 180 x 56mm (Convertor)	

Ordering Code

Series	KWF-2000S			
Converter	W S D	Wall Mounted Panel Mounted Explosion-Proof		
Flow Transducers	<div>- TS-2 Clamp on, Small</div> <div>- TM-1 Clamp on, Medium</div> <div>- TL-1 Clamp on, Large</div> <div>- TS-2-HT High Temp. Clamp On, Small</div> <div>- TM-1-HT High Temp. Clamp On, Medium</div> <div>- TL-1-HT High Temp. Clamp On, Large</div> <div>- TC-1 Insertion, Standard</div> <div>- TC-2 Insertion, Extended</div> <div>- G1 Pipe, Standard</div> <div>- G2 Pipe, Standard</div> <div>- G3 Pipe, π Type</div>			
Diameter	- XX	DN (mm)		
Pipe Material	<div>- 0 Carbon Steel</div> <div>- 1 Stainless Steel</div> <div>- 2 Cast Iron</div> <div>- 3 Glass Fiber Reinforced</div> <div>- 4 PVC</div> <div>- 5 Cement</div> <div>- 6 Other</div>			
Pressure	- 2	Mpa (Mega Pascal)		
Cable Length	- XX	m (Meter)		
Temperature Transducers	<div>- CT-1 Clamp On Pt100</div> <div>- TCT-1 Insertion Pt100</div> <div>- PCT-1 Insertion Pt100 with Pressure</div> <div>- SCT-1 Insertion Pt100 Small Size Pipe Diameter</div>			
SD Card Memory	<div>- 0 Yes</div> <div>- 1 No</div>			

Example Order Code : KWF-2000S W - TM-1 - 200 - 0 - 2 -10 - CT-1 - 0