

Ultrasinc flowmeter CAM3000M



| Features |

- High Accuracy
 - Better than $\pm 1\%$
- Wide Measuring Range

Several types transducer for selection, pipe size from Dn15mm to Dn6000mm

• High Reliability

Adopt low voltage, multi-pulse technology to improve accuracy, useful life and reliability.

Strong Anti-interference

Dual-balance signal differential receiver/driver circuit to avoid interference of converter, TV tower, high voltage line etc.

Powerful Recording Function

Automatically record the following data:

- 1. The totalizer data of the last 512 days/128 months/10 years
- 2. The time and corresponding flow rate of the last 64 times of power on and off events
- 3. The working status of the last 32 days
- Far transmission distance, easy for networking

RS485 support wireless network, connect GPRS module to accomplish wireless transmission.

• Support Heat Measurement

Connect the temperature transducer, can finish the heat/energy measurement

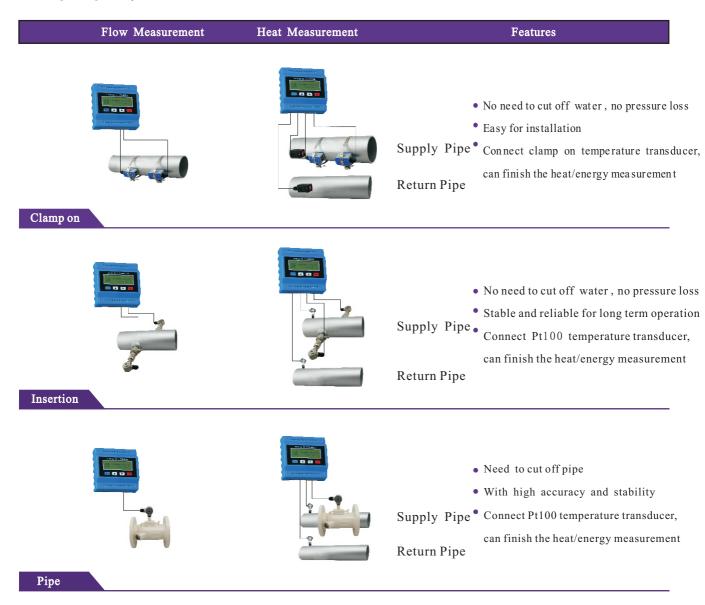
CAM-3000M

Ultrasonic Flow Module/RTU

| Liquid Type |

This flowmeter 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

| Measuring Diagram |



Applications



CAM-3000M

Ultrasonic Flow Module/RTU

Optional Transducers

Types	Picture	Specification	Model	Measurement Range	Temperature	Dimension
Clamp on		Small Size	TS-2	DN15 [~] DN100	-30 [~] 90°C	45×25×32mm
		Medium Size	TM-1	DN50 [~] DN700	-30~90℃	64×39×44mm
		Large Size	TL-1	DN300~DN6000	-30~90℃	97×54×53mm
High Temp Clamp on	•	Small Size	TS-2-HT	DN15 [~] DN100	-30 [~] 160°C	45×25×32mm
		Medium Size	TM-1-HT	DN50~DN700	-30 [~] 160°C	64×39×44mm
		Large Size	TL-1-HT	DN300~DN6000	-30 [~] 160°C	97×54×53mm
Insertion		Standard	TC-1	DN80 [~] DN6000	-30 [~] 160°C	190×80×55mm
		Lengthen	TC-2	DN80~DN6000	-30 [~] 160°C	335×80×55mm
Pipe		π type	G3	DN15 [~] DN25	-30 [~] 160°C	Pls refer to
		Standard	G2	DN32/DN40	-30 [~] 160°C	detailed pipe dimensions
		Standard		DN50~DN6000	-30 [~] 160°C	

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	
	Insertion temperature Transducer Pt100	TCT-1	≥DN50	-40 [~] 160°C	Yes	100°C ±0.8°C
	Insertion Pt100 Installation with pressure	PCT-1	≥DN50	-40 [~] 160°C	No	
	Insertion Pt100 Small size pipe diameter	SCT-1	<dn50< td=""><td>-40[~]160°C</td><td>Yes</td><td></td></dn50<>	-40 [~] 160°C	Yes	

| Parts Descriptions |

Front View Wiring Dragram Back View



Dimensions: 92×90×34mmLCD Display: 60×19mm

• 4 keyboard operation

TX2 T2 GND T1 TX1 A15 A14 A13 OCT1 OCT1 RLY RLY

24V+ 24V+ 485* 485 A0N A0 UP+ UP- GND DN+ DN- GND



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

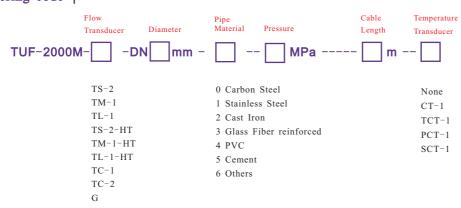
CAM-3000M

Ultrasonic Flow Module/RTU

| Datasheet |

Items	Performance & Parameter					
	Principle	Transit-time ultrasonic flowmeter				
	Accuracy	±1%				
	Operation	4 keyboards operation				
		1 way 4~20mA output, electric resistance 0~1K, accuracy0. 1%				
Convertor	Signal Output	1 way OCT pulse output (Pulse width 6~1000ms, default is 200ms)				
		1 way Relay output				
	Signal	3 way 4~20mA input, accuracy 0. 1%, acquisition signal such as temperature, press and liquid level				
	Input	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 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	$0^{\sim}\pm7\text{m/s}$				
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 AC10~30V					
Power consumrtion	1. 5W					
Dimension	95*95*35MM(Convertor)					

Ordering code



 $Example \colon CAM - 3000M + TM - 1 + DN300 + 0 + 1 \:. \: 6MPa + 10m + PCT - 1$

 $PS: \ Standard\ confirguration = CAM-3000M(convertor) + TM-1 + 5M\ cable\ + Steel\ belt\ (DN200) + Couplant\ (1\ pc) + Coupl$