



## FEATURES

- Wide measuring range. Several types transducer for selection.
- 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

## APPLICATIONS

- Water supply and drainage
- Heating
- Construction of Energy-saving
- Metallurgy
- Petrochemical
- Power

## CONVERTOR

Principle	Transit -time ultrasonic flowmeter
Accuracy	±1%
Operation	4 keyboards operation
Signal output	1 way 4~20mA output, electric resistance 0~1K, accuracy 0.1%
	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
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

## WORKING ENVIRONMENT

Temperature	Converter: -20...60°C; Flow Transducer: -30...160°C
Humidity	Converter: 85% RH; Flow Transducer: can measure under water, water depth ≤ 2m (transducer sealed glue)

## SPECIFICATIONS

Power supply	DC8-36V or AC10-30V (optional)
Power consumption	1.5W
Dimension	95 x 95 x 35 mm (converter)

#### 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 10000 ppm and less bubble
Flowrate	0...±7 m/s

#### MEASURING DIAGRAM

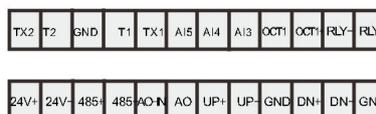
	Flow Measurement	Heat Measurement	Features
Clamp on			<ul style="list-style-type: none"> <li>• No need to cut off water, no pressure loss.</li> <li>• Connect clamp on temperature transducer, can finish the heat/energy measurement.</li> <li>• Easy for installation.</li> </ul>
Insertion			<ul style="list-style-type: none"> <li>• No need to cut off water, no pressure loss.</li> <li>• Stable and reliable for long term operation.</li> <li>• Connect Pt100 temperature transducer, can finish the heat/energy measurement.</li> </ul>
Pipe			<ul style="list-style-type: none"> <li>• Need to cut off pipe.</li> <li>• With high accuracy and stability.</li> <li>• Connect Pt100 temperature transducer, can finish the heat/energy measurement.</li> </ul>

Front View



- Dimensions: 92 x 90 x 34mm
- LCD display: 60 x 19mm
- 4 keyboard operation

Wiring Diagram



Back View



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

### OPTIONAL TRANSDUCERS

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