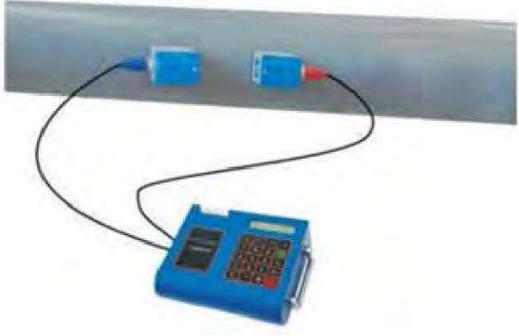
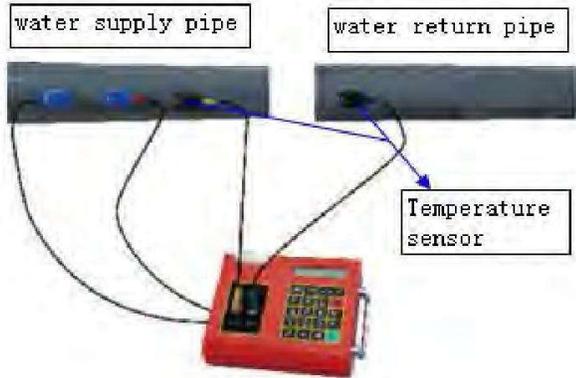
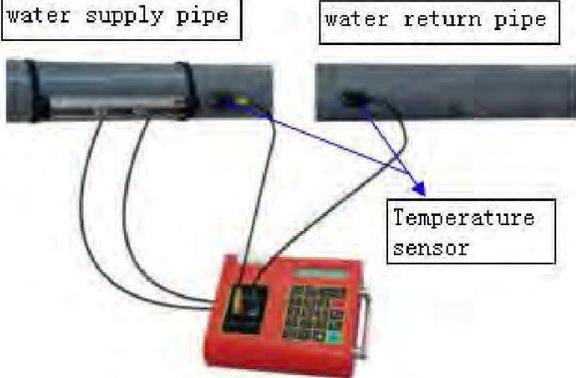
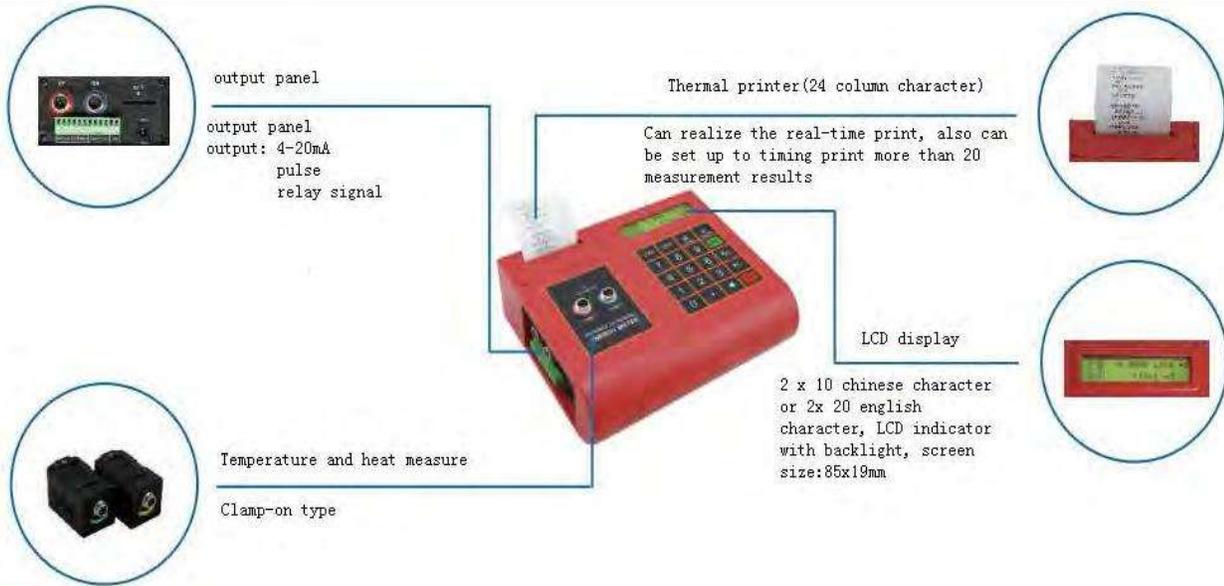


## Portable type Ultrasonic Flow meter

Type: HGLS-2000P

	
Portable Ultrasonic flow meter Main unit: HGLS2000P, transducer: clamp-on type	Portable Ultrasonic flow meter Main unit: HGLS2000P, transducer: Bracket type

	
Portable Ultrasonic flow and heat meter can measure heat <b>Main unit:</b> HGLS2000PH, transducer: clamp-on type	Portable Ultrasonic flow and heat meter can measure heat <b>Main unit:</b> HGLS2000PH, transducer: clamp-on type
<b>Application:</b> Thermal power plant, heating power company, heat exchange station, air conditioning refrigeration, energy conservation and emissions reduction	
 <p>PT100 3-wire temperature sensor,</p>	Model: CT-1, suitable for pipeline $\geq$ DN50, temperature range -40 to 160°C, Accuracy: $100 \pm 0.1^\circ\text{C}$ under exact match


**Technical data**

Item		Performance/parameter
Main unit	Principle	Ultrasonic time difference principle, 4 byte IEEE754 floating point arithmetic
	Accuracy	Better than 1% for flow
	display	2x10chinese character or 2x20 English character, support language: Chinese, English, Italian
	output	One 4-20mA, impedance 0-1KOhm
		One OCT pulse output (pulse width: 6-1000ms, default is 200ms)
		One relay output
	input	3 inputs of 4-20mA, for acquisition to temperature, pressure, liquid level
Can connect 3-wire Pt100 resistance to measure heat		
Data interface	Isolated RS485 interface, can operate on computer to upgrade flow meter, support Modbus protocol	
Data recorder	Thermal printer, can be equipped with SD card, capacity is 2GB	
Pipeline condition	Mtl.	Steel, stainless steel, cast iron, copper, PVC, aluminum, glass fiber reinforced plastics, and all compact pipeline, liner in pipe inner wall is also allowed.
	size	DN15 - DN6000mm
	Straight pipe requirement	Upstream: 10D, Downstream: 5D, distance from pump outlet: 30D (D is nominal diameter of pipeline)
Fluid	Type	Water, sea water, industrial sewage, acid or alkali solution, alcohol, beer, the uniform liquid that can conduct ultrasonic wave
	Temp.	-30 to 160°C
	Turbidity	10000ppm and few bubble
	flow velocity	0 to ±10m/s
Environment	Temp.	Main unit: -20 to 60°C, Transducer: -30 to 160°C
	Humidity	Main unit: 85%RH; Transducer weather proof: IP67



Power supply	8*1.2V Ni-MH rechargeable battery 2000mAH, can working 20 hours after full charged. If output 4-20mA, can working 8 hours. With an AC90-260V power adapter which connect to AC power source to implement continuous measuring.
Power consumption	1.5W

### Configuration:

HGLS2000P Or HGLS2000PH				
Main Unit	Medium transducer TM-1	Ultrasonic signal Cable	Power Cord	Carrying case
				
Stretcher	Tape ruler	Data line	User Manual	Ultrasonic coupling agent

### Optional Transducer:

Transducer	code	Description	Temperature	Accuracy
	TS-2	Small size clamp-on type (Magnetic) for DN15~DN100mm	-30°C~90°C	±1%FS
	TM-1	Middle size clamp-on type (Magnetic) for DN50~DN700mm	-30°C~90°C	±1%FS
	TL-1	Large size clamp-on type (Magnetic) for DN300~DN6000mm	-30°C~90°C	±1%FS
	TS-2-HT	Small size High-temperature clamp-on type for DN15~DN100mm	-30°C~160°C	±1%FS

	TM-1-HT	Middle size High-temperature clamp-on type for DN50~DN700mm	-30°C~160°C	±1%FS
	TL-1-HT	Large size High-temperature clamp-on type for DN300~DN6000mm	-30°C~160°C	±1%FS
	HS	Standard small size bracket type transducer for DN15~DN100m	-30°C~90°C	±1%FS
	HM	Standard middle size bracket type transducer for DN50~DN300m	-30°C~90°C	±1%FS
	EB-1	Standard extended bracket type transducer for DN300 ~ DN700mm	-30°C~90°C	±1%FS
	HS-HT	High-temperature small size bracket type transducer for DN15~DN100m	-30°C~160°C	±1%FS
	HM-HT	High-temperature middle size bracket type transducer for DN50~DN300m	-30°C~160°C	±1%FS
	EB-1-HT	High-temperature extended bracket type transducer for DN300~DN700mm	-30°C~160°C	±1%FS

**Other optional configuration:**

		
Ultrasonic thickness meter	lengthen cable	Lengthen stretcher