LONGRUN

ULTRASONIC FIOWMETER SAMPLE BOOK

TYPE:LRF-2000F

Concentrating on Flow Measurement

LONGRUN
Industrial Instrument
Co., Ltd



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

24 hours service: +86-186-5435-6933 Tel: +86-543-3382666 Fax: +86-543-3615999

Website: www.ultrasonicscn.com LONGRUN® E-mail: info@ultrasonicscn.com skype: Longrunch

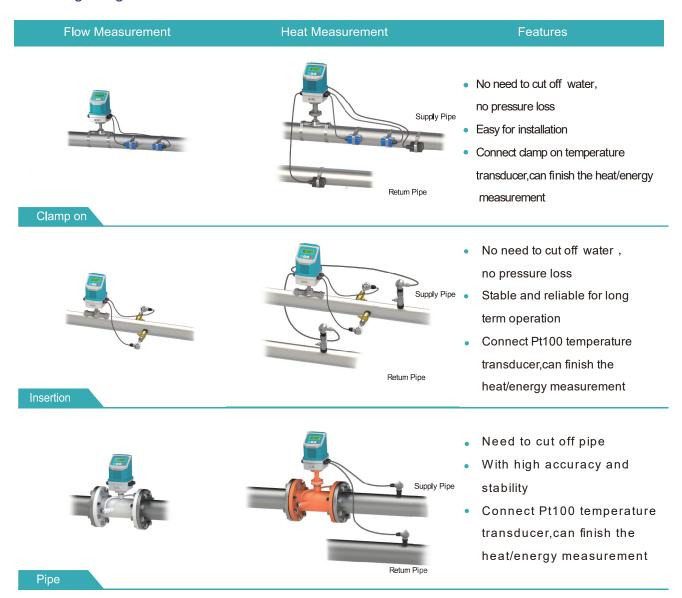


LRF-2000F Fixed Integrated Ultrasonic Flowmeter

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 |

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

Power

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Optional Transducers

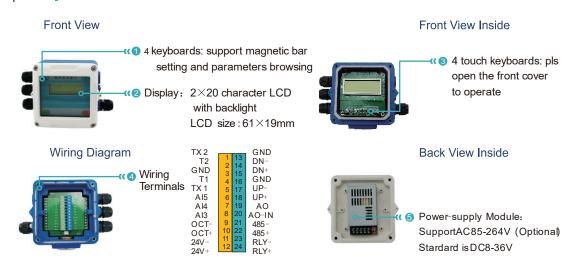
Types	Picture	Spec.	Model	Measurement Range	Temperature	Dimension	
Clamp on		Small Size	TS-2	DN 15~ DN 100	-30~90℃	45×25×32mm	
		Medium Size	TM−1	DN 50~ DN 700	-30~90℃	64×39×44mm	
	To a	Large Size	TL-1	DN300~DN6000	-30~90℃	97×54×53mm	
High temp	**	Small Size	TS-2-HT	DN 15~ DN 100	-30∼160°C	45×25×32mm	
		Medium Size	TM-1-HT	DN 50~ DN 700	-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℃	Pls refer to detailed pipe dimensions	
		Standard	G2	DN32~DN40	-30~160°C		
		Standard	G1	DN50~DN6000	-30∼160℃		

Optional Temperature Transducers

Picture	Specification	Model	Meas. Range	Temperature	Cut of water	Accuracy
	Transducer Pt100 Clamp on temperature	CT-1	≥DN50	-40~160°C	No	
	Transducer Pt100 Insertion temperature	TCT-1	≥DN50	-40∼160°C	Yes	100°C ± 0.8°C
	Insertion Pt100 Installation with pressure	PCT-1	≥DN50	-40~160°C	No	100 C ± 0.8 C
	Insertion Pt100 Small size pipe diameter	SCT-1	ON50	-40~160°C	Yes	

Parts Descriptions

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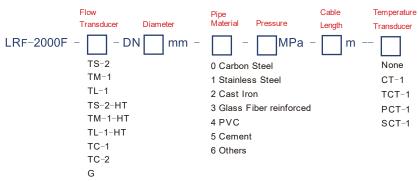


LRF-2000F Fixed Integrated Ultrasonic Flowmeter

Datasheet

Items	Performance & Parameter					
	Principle	Transit-time ultrasonic flowmeter				
	Accuracy	土1%				
	Operation	Support 4 keyboards magnetic bar/4 touch keyboards/simulation keyboard software				
	Signal Output	1 way 4~20mA output, electric resistance 0~1K, accuracyo.1%				
Convertor		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	Twisted-pair cable, generally, the length under 50 meters; Select the RS485, transmission distance can over 1000m				
	Material	Steel, Stainless steel, Cast iron, Copper, Cement pipe,PVC, Aluminum, Glass steel product, liner is allowed				
Pipe Installation Condition	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: −20~60°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	110*110*95mm(convertor)					

Ordering Code



Example: LRF-2000F+TM-1+DN300+0+1.6MPa+10m+PCT-1

PS: Standard confirguration = LRF-2000F (convertor)+TM-1+5M cable+Steel belt (DN200)+Couplant(1 pc).



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