Sabit Tip Ultrasonik Debimetre







Clamp



Inserted



Pipeline

FEATURE

*High Accuracy

Accuracy better than 1%

*Measure Range

Select different model sensors, can achieve DN15-DN6000mm pipe flow measurement

*High Reliability

Adopt low voltage, multi-pulse radiating circuit. Accuracy, Lifetime and Reliability are better.

*High Anti-interference

Adopt double balanced signal differencial transmission, receving circuit, effective resist the drive, tower, Strong power lines and other source of interference.

*Powerful Memory Function

Automatic memory the cumulative flow of 512 days before, 128 months before, 10 years before.

Automatic memory the power-on and off of 64times before and the flow.

Automatic memory the meter working condition of 32days before.

*Support Temperature Sensor

Connect with Temperature sensor, it can meaure heat flow.

*Support SD card memory

Select SD card memory, it can realize mass storage by ultrasonic flowmeter

PHILEMON-FB SERIES

| PRODUCT INTRODUCTION |

The PHILEMO-FB Ultrasonic Flowmeter widely used to measure different kinds of liquid.

Transmitter and transducer install seperately. Transmitter can install at indoor, Instrument cabinet, Dashboard.

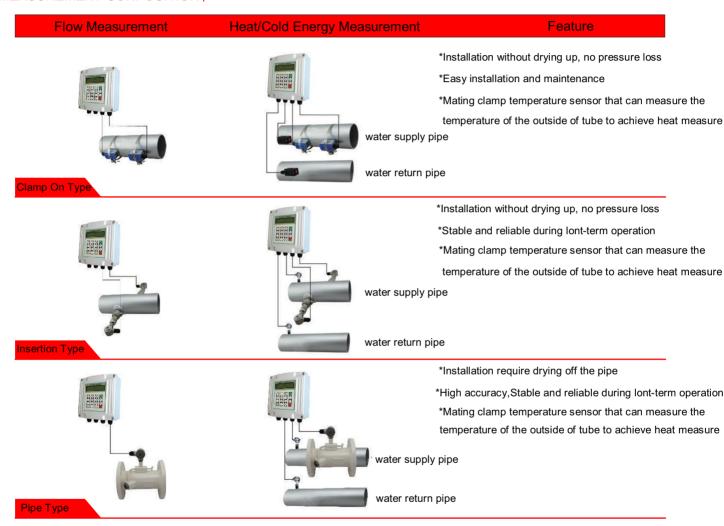
Transducer install on the pipes. Transmitter and Transducer connect by special cable.

It can realize to measure flow. Connect with temperature sensor, it can measure heat flow.

Widely used in Running water, Heating, Water conservation, Metallurgy, Chemical industry, Machinery, Energy etc.

Used for production monitoring, water balance testing, thermal equilibrium network commissioning, energy monitoring. It is most important flow measure instrument duiring manufacturing process.

MEASUREMENT CONPOSITION



TRANSMITTER

Due to different installation circumstance, choose different transmitter



- *Wall-Mounted Type PHILEMO-FB
- *Used to mount on the wall
- *Dimension:170*180*56mm
- *Power supply:

DC8-36V or AC85-264V



- *Panel Mounted Type PHILEMO-FB
- *Used for meter cabinsets installation
- *Dimension:152*76mm
- *Power supply:

DC8-36V or AC85-264V



- *Explosion Proof Type PHILEMO-FB
- *Used for hazardous area
- *Dimension:298*298*110mm
- *Power supply:DC8-36V or AC85-264V,
- *Ex-proof Class:DIIBT4

PHILEMON FB SERIES

TRANSDUCER

Due to different liquid, pipeline condition installation circumstance, choose different transducer

Туре	Picture	Specification	Model	Pipe Size	Temperature	Dimension	
Standard Clamp On Type		Small	TS-2	DN15~DN100	-30~90℃	45×25×32mm	
	No.	Medium	TM-1	DN50~DN700	-30~90℃	64×39×44mm	
		Large	TL-1	DN300~DN6000	-30~90℃	97×54×53mm	
High Temperature Clamp On Type	Small		TS-2-HT	DN15~DN100	-30~160℃	45×25×32mm	
	Medium		TM-1-HT	DN50~DN700	-30~160℃	64×39×44mm	
		Large	TL-1-HT	DN300~DN6000	-30~160℃	97×54×53mm	
Insertion Type		Standard	TC-1	DN80~DN6000	-30~160℃	190×80×55mm	
		longer type	TC-2	DN80~DN6000	-30~160℃	335×80×55mm	
Pipeline Type	111	π	G3	DN15~DN25	-30~160℃	SS304 Thread Connection	
	de	Standard	G2	DN32/DN40	-30~160℃	CS Thread Connection	
		Standard	G1	DN50~DN6000	-30~160℃	CS Flange Connection	

Temperature Sensor

Picture	Specification	Model	Measurement Range	Temperature Range	Installation Requirement	/\ccurcov
98	Three Wire PT100 ClampTemperatureSensor	CT-1	≥DN50	-40~160℃	no need cut flow	
	Three Wire PT100 Insertion Temperature Sensor	TCT-1	≥DN50		need cut flow	1000 = 0.00
		PCT-1	≥DN50	-40~160℃	no need cut flow	Temperature differece ≤0. 1℃ after match accurately
0	Small size three wirePT100 Insertion Type temperature sensor	SCT-1	<dn50< td=""><td>-40~160℃</td><td>need cutflow</td><td>•</td></dn50<>	-40 ~ 160℃	need cutflow	•

SD Memory Card

SD card can realize the mass storage for ultrasonic flowmeter

Measuring data can deal with use our company software flow data

analysis, statistical



« SD card memorize & cassette

Recorded original data



Software import data

Instantaneous flow curve formed by software

Accumulated flow histogra formed by softwarem



PHILEMON-FB SERIES

|TECHNICAL PARAMETERS |

Туре	Performance, specification							
	Principle Ultrasonic transit-time principle,Four-byte IEEE754 floating-point arithmetic							
	Accuracy	uracy Better than ±1%						
	Display	LCD display with Chinese, English Display						
	Output	One 4-20mA Current output,Impedance0-1K,Accuracy 0.1%						
Transmitter		One OCT Pulse output(Width 6-1000ms,Default200ms)						
		One Relays output						
	Input	Three 4-20mA Current input, accuracy 0.1%, can collect temperature, pressure, level signals etc.						
		Can connect with three-wire PT100 Plastnium resistance to measure heat flow.						
	pata Interface Isolated RS485 interface, can upgrade flowmeter through PC,support modbus							
Cable	Normal below 50m;Select RS485 Communication,Transmission distance can over thousand meters.							
Pipe Condition	material	Steel, Stainless steel, Cast iron, copper, PVC, aluminium, FRP etc. (liner allowed)						
	Diameter	Diameter 15~6000mm						
	Installation	Upstream 10D,downstream 5D,30D away from the pump outlet(D for diameter)						
	Fluid	Water,sea water,acid liquid,beer,alcohol,oil and any other liquid that can spread so						
Medium	Гетрегаture	-30~160 deg C						
	Turbidity	y 10000ppm and with little bubbles						
	Velocity	0~±10ms						
Operating	Femperature	Transmitter:-20~60 deg C;Transducer:-30~160 deg C						
Environment	Humidity	Transmitter:85%RH;transmitter protection grade:IP68;Water Depth<2m						
Power Supply	DC8-36V or AC85-264V							
Consumption	1. 5W							

Model Selection

			Nominal	Cable	Temperature	CD Cand Data Change
Transmitter Transdo	ucer Diameter	Material	Pressure	Length	Sensor	SD Card Data Storage
PHILEMON-FB] - DN mm -	. 🔲	MPa-	- 🔲 m -	. 🔲	
W Wall Mounted S2		0 carbon s	ss steel		N No temperature sensor	0 with this function
S Panel mounted ^{M2}		2 cast iron			C clamp on type 1 without the linsertion type 12 insertion installation with pressure	
D Ex-proof L2 S2	2 2H	3 FRP 4 PVC 5 cement				i without this function
						th pressure
L2	2H	6 others			S small size temperature	sensor
12						
121	L					
G						

For Example:PHILEMO-FB-W-S2-15-0-1-5-N-1

Explanation: Fixed Remote type ultrasonic flowmeter; Wall mounted transmitter, small size standard transducer, DN15, carbon steel material, nominal pressure 1.0Mpa, 5m cable, No temperature sensor

without SD card data storage

