

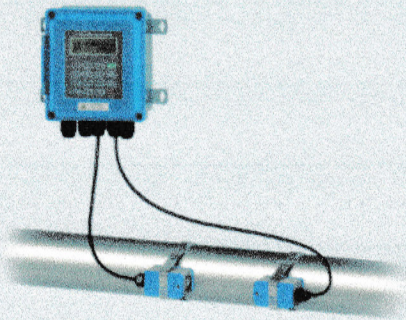
INSTRUMENTS

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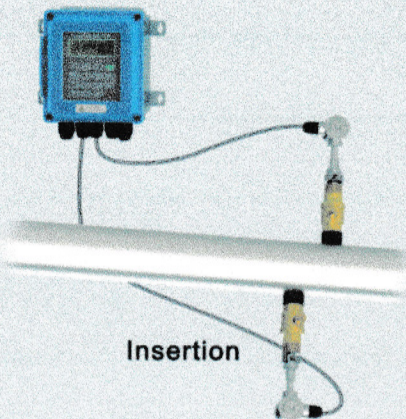
WALL MOUNTED ULTRASONIC FLOWMETER

IP67

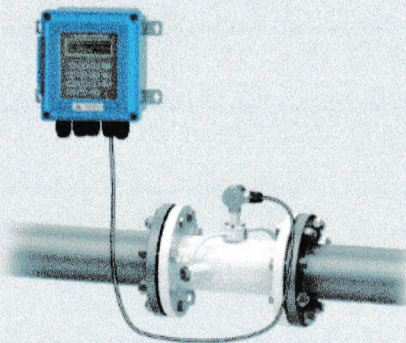
Water & Dust Resistant



clamp on



Insertion



Pipe



| Features |

- Measurement accuracy 1%.
- Converter protection class IP67, transducer protection class IP68.
- Wide measurement range, pipe size from DN25mm to DN6000mm.
- Three types installation method: wall mounted, DIN-rail mounted, explosion-proof box mounted.
- Connect the temperature transducer can finish the heat/energy measurement.

IP67

Wall Mounted Ultrasonic Flowmeter

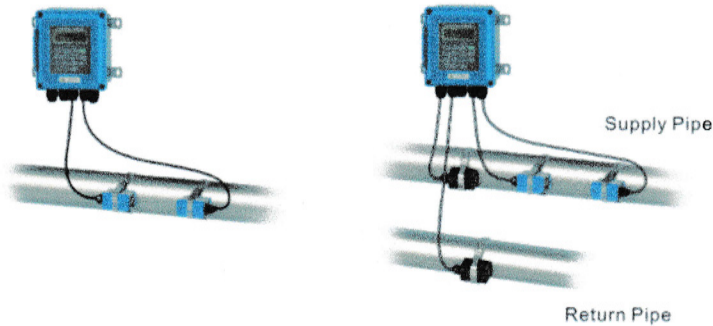
| Introduction |

SLH-Fb Series flowmeter can be virtually applied to a wide range of in long-term online measurement. Converter protection class IP67, transducer protection class IP68. A variety of liquid applications can be accommodated: ultra-pure liquids, portable water, chemicals, raw sewage, reclaimed water, cooling water, river water, plant effluent.etc

| Measuring Diagram |

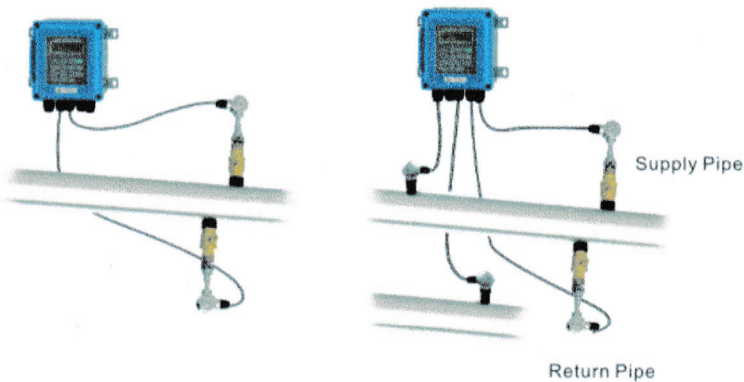
| | Flow Measurement | Heat Measurement | Features |
|--|------------------|------------------|----------|
|--|------------------|------------------|----------|

Clamp on



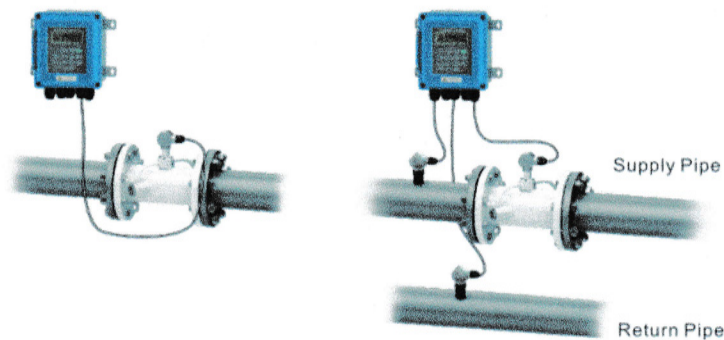
- No need to cut off water , no pressure loss.
- Connect clamp on temperature transducer,can finish the heat/energy measurement.
- Easy for installation.

Insertion



- No need to cut off water , no pressure loss.
- Stable and reliable for long term operation.
- Connect Pt100 temperature transducer, can finish the heat/energy measurement.

Pipe













- Need to cut off pipe
- With high accuracy and stability
- Connect Pt100 temperature transducer, can finish the heat/energy measurement

Wall Mounted Ultrasonic Flowmeter





| Optional Transducers |

Please choose the suitable transducer, according to different liquid pipe condition and installation method, (please refer to the measuring diagram).

| Types | Picture | Spec. | Model | Measurement Range | Temperature | Dimension | |
|--------------------|---|-------------|---------|-------------------|-------------|--------------------------------|--|
| Clamp on |  | Small Size | TS-2 | DN25~DN100 | -30~90℃ | 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 | DN25~DN100 | -30~160℃ | 45×25×32mm | |
| |  | Medium Size | TM-1-HT | DN50~DN700 | -30~160℃ | 64×39×44mm | |
| |  | Large Size | TL-1-HT | DN300~DN6000 | -30~160℃ | 97×54×53mm | |
| Insertion |  | Standard | TC-1 | DN80~DN6000 | -30~160℃ | 190×80×55mm | |
| |  | Lengthen | TC-2 | DN80~DN6000 | -30~160℃ | 335×80×55mm | |
| Pipe |  | π type | G1 | DN15~DN32 | -30~160℃ | SUS304 thread connection | Please refer to detailed pipe dimensions |
| |  | Standard | G2 | DN40~DN1000 | -30~160℃ | carbon steel thread connection | |

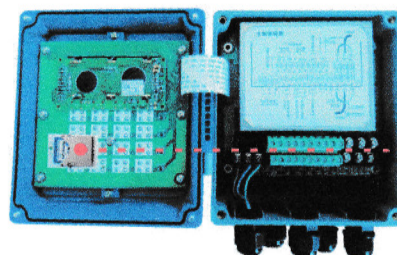
| Optional Temperature Transducers |

Connect the temperature transducer can finish the heat/energy measurement

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

| Optional SD card memory |

Convenience for long-term and large data storage. Available to do the data processing like tabulation, statistical, data analysis, printing reports and production flow curve by using data analysis software.



SD card optional

Wall Mounted Ultrasonic Flowmeter

| Datasheet |

| Items | | Performance & Parameter |
|-----------------------------|---|--|
| Convertor | Principle | Transit-time ultrasonic flowmeter |
| | Accuracy | ± 1% |
| | Display | 2× 20 character LCD with backlight, support the language of Chinese, English, Italy, Turkish |
| | Signal Output | 1 way 4~20mA output, electric resistance 0~1K, accuracy 0.1% |
| | | 1 way OCT pulse output (Pulse width ~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 | 25~6000mm |
| | 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℃ |
| | Turbidity | No more than 10000ppm and less bubble |
| | Flowrate | 0~±7m/s |
| Working Environment | Temperature | Convertor: -20~60℃; Flow Transducer: -30~160℃ |
| | Humidity | Convertor: 85% RH; Flow Transducer: can measure under water, water depth ≤ 2m (transducer sealed glue) |
| Power Supply | Dc 8~36V or Ac 85~264V (optional) | |
| Power Consumption | 1.5W | |
| Dimension | 132*150*85 mm (convertor) | |

| Ordering Code |

| | | | | | | |
|-----------------------------------|---------------------------------|--|------------------------------|----------------------------------|----------------------------|--------------------------|
| Flow Transducer | Diameter | Pipe Material | Pressure | Cable Length | Temperature Transducer | SD card Memory |
| SLH-Fb - <input type="checkbox"/> | -DN <input type="checkbox"/> mm | - <input type="checkbox"/> -- <input type="checkbox"/> MPa | - <input type="checkbox"/> m | - <input type="checkbox"/> ----- | - <input type="checkbox"/> | <input type="checkbox"/> |
| TS-2 | | 0 Carbon Steel | | | None | 0 Yes |
| TM-1 | | 1 Stainless Steel | | | CT-1 | 1 No |
| TL-1 | | 2 Cast Iron | | | TCT-1 | |
| TS-2-HT | | 3 Glass Fiber reinforced | | | PCT-1 | |
| TM-1-HT | | 4 PVC | | | SCT-1 | |
| TL-1-HT | | 5 Cement | | | | |
| TC-1 | | 6 Others | | | | |
| TC-2 | | | | | | |
| G | | | | | | |

Example SLH-Fb - TM-1 - DN300 - 0 - 1.6MPa - 10m - PCT-1 - 0

PS: Standard configuration = SLH-Fb + TM-1 + 5M cable + Steel belt (DN200) + Couplant (1 pc)