

**FEATURES**

- Wide measuring range.  
Several types transducer for selection.
- Large capacity battery:  
Built-in rechargeable Ni-MH battery, provide over 12 hours of continuous operation
- None-intrusive measuring:  
Non-intrusive, clamp-on transducer, no pressure drop, no pipe disturbance
- Large LCD display:  
Display instantaneous flow, accumulated flow (positive, negative and net), velocity, working status etc.

**APPLICATION**

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

**CONVERTOR**

|                |   |
|----------------|---|
| Principle      | : Transit-time ultrasonic flowmeter   |
| Accuracy       | : Accuracy: $\pm 1\%$<br>Linearity: 0.5%<br>Repeatability: 0.2%               |
| Display        | : 4 x 16 character LCD with backlight   |
| Data Interface | : Insulate RS232 serial interface, upgrade the flowmeter software by computer |

**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°C  |
| Turbidity      | : No more than 10000 ppm and less bubble   |
| Flowrate       | : 0... $\pm 10$ m/s  |

**WORKING ENVIRONMENT**

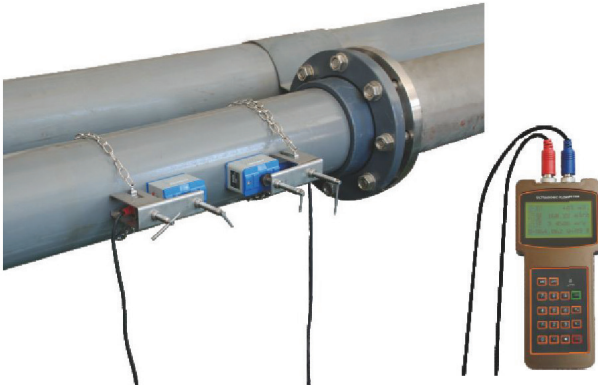
|             |   |
|-------------|---|
| Temperature | : Converter: -20...60°C; Flow Transducer: -30...160°C |
| Humidity    | : Converter: 85% RH; Flow Transducer: IP67            |

**SPECIFICATIONS**

|                   |   |
|-------------------|---|
| Power supply      | : 3AAA built-in Ni-MH batteries 1.2V(for over 12 hours of operation), 90V-260V AC adapter |
| Power consumption | : 1.5W  |
| Dimension         | : 200 x 93 x 32 mm (converter)  |
| Case Material     | : ABS   |

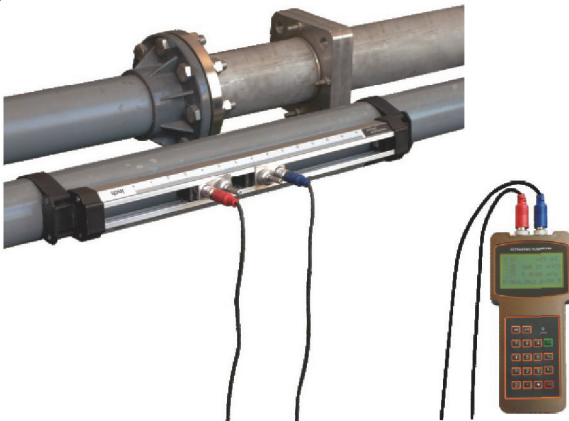
#### MEASURING DIAGRAM

##### Clamp on Transducers



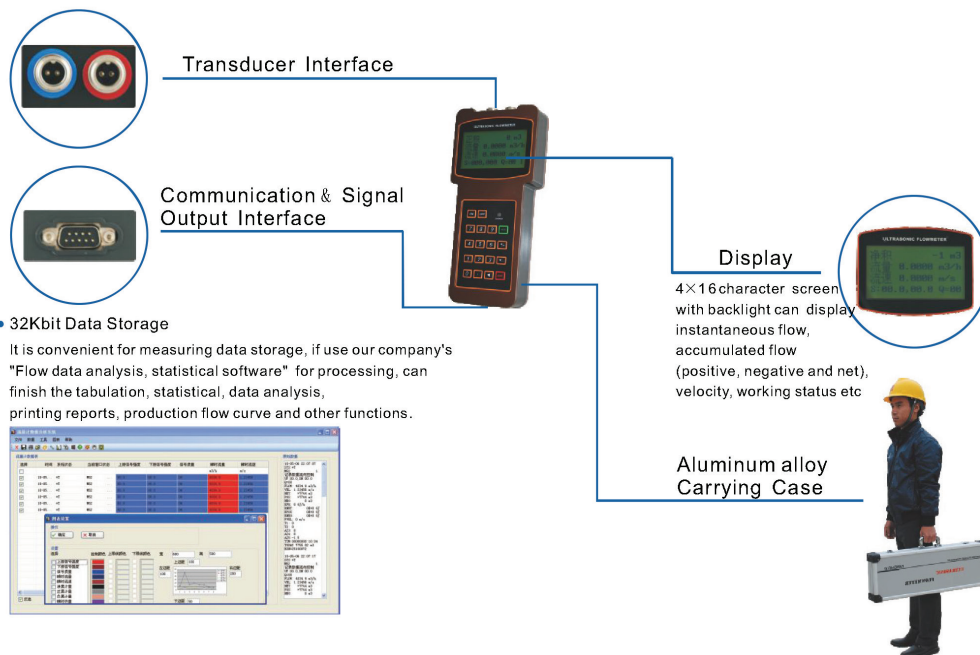
- Install the clamp on transducer (with magnet) on the pipe, can finish the flow measurement. No pressure drop, no need cut off pipe.
- Several types transducers for selection. measuring pipe size from DN15mm to DN6000mm.
- Several types transducers for selection.

##### Clamp on Mounting Bracket Transducers



- Bracket transducer can simplify the ultrasonic flowmeter installation process. shorten installation time and improve installation accuracy.
- install the clamp on bracket transducer (with magnet) on the pipe, can finish the flow measurement. No pressure drop, no need cut off pipe.
- Several types bracket transducer for selection, measuring pipe size from DN15mm to DN700mm.
- Several types bracket transducers for selection, measuring temperature range from -30°C to 160°C.

#### PARTS DESCRIPTIONS



#### 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 Temperature 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   |
| Mounting Bracket Clamp on                  |    | Small size  | HS      | DN15~DN100        | -30...90°C  | 318 x 59 x 85mm  |
|  |  | Medium size | HM      | DN50~DN300        | -30...90°C  | 568 x 59 x 85mm  |
|  |  | Extended    | EB-1    | DN300~DN700       | -30...90°C  | 188 x 59 x 49mm  |
| High Temperature Mounting Bracket Clamp on |  | Small size  | HS-HT   | DN15~DN100        | -30...160°C | 318 x 59 x 110mm |
|  |  | Medium size | HM-HT   | DN50~DN300        | -30...160°C | 568 x 59 x 110mm |
|  |  | Extended    | EB-1-HT | DN300~DN700       | -30...160°C | 188 x 59 x 49mm  |