

Fixed Type Ultrasonic Flow Meter

QTDS-100 Series Fixed Type Ultrasonic Flow Meter is widely used for online flow measurement of various industrial liquid. Transmitter type: wall mounted A type, wall mounted B type, wall mounted explosion type, Panel type, local display type (F4 type transmitter) and module type; Transducer type: clamp-on, insertion and pipeline type.

- Accuracy: Better than 1%; Repeatability: better than 0.2%
- Measurement period: 500ms (2 times/second, every period collect 128 group data)
- Max Flow Velocity: 64m/s (velocity resolution 0.001m/s)
- Display: 2*10 English backlight LCD can display instantaneous flow and positive, negative, net accumulative flow, flow velocity etc
- Operation: 4*4 touch keyboard operation (F4 transmitter magnetic buttons)
- Input Signal: Three way 4-20mA analog input, accuracy up to 0.1%
 - Can input pressure, level, temperature and other signal
 - Two way three-wire PT100 temperature sensor
- Data Storage: Optional built-in data logger (SD card) can record date, instantaneous flow, accumulative flow, signal condition etc. Can import data by special software to computer which is convenient for statistics and management
- Communication Protocol: MODBUS, M-BUS, FUJI Extension Protocol, and compatible with some other similar products, protocol made by other China manufacturers
- Other Function:
 - ◆ Automatically record positive/negative/net accumulative flow of the past 512 days, the past 128 months and the past 10 years
 - ◆ Automatically record on/off power and flow rate of the last 30 times and can achieve add the flow rate automatically or manually, read by MODBUS protocol
 - ◆ Can program batch (quantitative) controller, with self-diagnosis function
 - ◆ Can achieve software update by code file sent via Email

■ Sensor introduction

- Medium: Water, sea water, sewage, alcohol, all kinds of oil and other single, uniform, stable liquid which can transmit ultrasonic wave
- Viscosity: ≤ 20000 ppm with less bubble
- Pipe Material: Carbon steel, stainless steel, cast iron, copper, PVC, aluminum, FRP and other uniform pipeline, liner is allowable
- Pipe Liner Material: Epoxy asphalt, rubber, slurry, polypropylene, polystyrene, bakelite, ptfе etc
- Signal Cable: SEYV75-2 type special shielded cable, single line can be lengthened to 500m, metal sleeve is needed when cabling to increase anti-interference performance, please noted cable shouldn't parallel with the high tension line, and should avoid the frequency converter or other interference sources.

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- Dynamic response speed: 0.004s;
- DPS digital signal processing technology, high anti-interference ability;
- Time resolution 10ts;
- High accuracy flow measurement, accuracy can be 0.5% class;
- Flexible English display transmitter, diversified transducers can achieve different industrial sites;
- Heat and cold measurement;
- Circuit board welding adopt international advanced SMD automatic welding process;
- CNC precision machining aluminium alloy housing material;