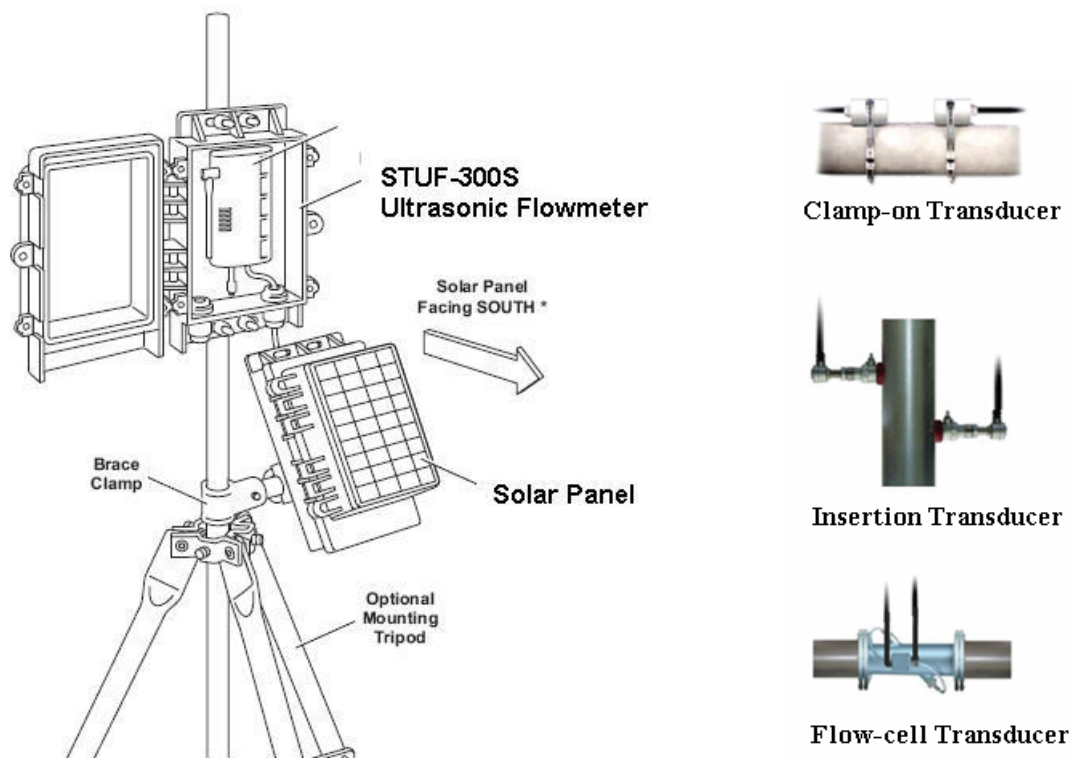


# STUF-300Sx

## Solar-Powered Digital Ultrasonic Flowmeter

For flow measurement applications in rural area where electrical power is not accessible, our STUF-300Sx provides an ideal solution. It has a solar panel, a battery, and a low-power consumption high-performance ultrasonic flowmeter. All the components, except transducers, are housed in a weather-proof robust enclosure.

The flowmeter has flash memory which can save the last 512 daily net flow values and the last 128 monthly net flow values. It is also capable of adding an optional data logger which can save mega flow samples.



**Sample Installation with Ultrasonic Flowmeter and Tripod**

Depending on transducer used, the Stuf-300Sx product family comes as three varieties: Stuf-300SB clamp-on ultrasonic flowmeter, Stuf-300SC insertion ultrasonic flowmeter and Stuf-300SG flow-cell ultrasonic flowmeter. All of them have better than 1% accuracy.

### Selection Guide:

For high accuracy → Stuf-300SG

For pipe  $\leq$  DN25 (1") → Stuf-300SG

For long-term stability and zero maintenance → Stuf-300SC or Stuf-300SG

For non-intrusive → Stuf-300SB

## **Main Features and Benefits:**

- Solar powered. No other power supply is needed. Solar panel rated at 2.5Watts
- Built-in rechargeable battery (12AH) and charging circuit
- Robust, weather-proof enclosure
- High accuracy. Normally  $\pm 1\%$ . Could be 0.5% when in-situ calibration is available
- No moving parts to worn out, thus, long life-span.
- No maintenance required, thus, low operation cost
- No pressure drop, no flow disturbance. Big savings on high pressure pipes
- Excellent long-term stability. System accuracy does not degrade over time
- Bi-directional
- Wide flow range. Large turn-down ratio
- Suitable for all commonly used pipe materials
- Suitable for most pure liquids and liquids with minor particles
- Robust performance due to proprietary signal quality tracking and self-adaptation technology
- Built-in flow totalizers
- Internal data logger: last 512 daily net flow values and last 128 monthly net flow values
- External data logger (optional): 32,000 data capacity. USB interface
- StufManager™ PC software for easy programming
- Isolated RS-485 interface with power surge protection. Support MODBUS. Well suited for reliable networking
- Versatile inputs/outputs, such as isolated 4-20mA output, pulse output, analog inputs
- Environment: :  $-10^{\circ}\text{C} \sim 70^{\circ}\text{C}$  ( $14^{\circ}\text{F} \sim 158^{\circ}\text{F}$ ) for main unit,  $40^{\circ}\text{C} \sim 100^{\circ}\text{C}$  ( $-40^{\circ}\text{F} \sim 212^{\circ}\text{F}$ ) for transducer