Model SLF-200
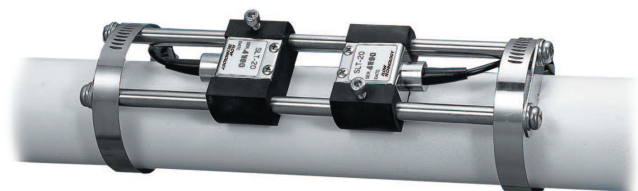## Ultrasonic Liquid Flow Meter

Description

The Model SLF-200 Ultrasonic Liquid Flow Meter is an accurate, reliable and cost-effective clamp-on ultrasonic instrument capable of measuring flow through metal, plastic and various other pipe material without altering the piping. Typical applications include corrosive chemicals in the process industry, DI water and chemicals in the semi-conductor market, fluids in the sanitary industry, or any installation when it is preferable not to have an instrument exposed to the process fluid. The SLF-200 was designed with the latest solid state technology providing the major economic benefit of many years of uninterrupted service.

Employing digital signal processing (DSP) techniques, the Model SLF-200 Ultrasonic Liquid Flow Meter provides outstanding accuracy and repeatability. The same meter can be used on line sizes from 1 to 6 inches without recalibration, and will cover a wide range of flow rates.

Installation and setup of the Model SLF-200 Ultrasonic Liquid Flow Meter is fast and easy. Integral to the display unit, the set-up software leads the installer through a series of questions related to pipe material and size, display configuration and desired outputs. This makes the initial installation or reconfiguration for different applications a straightforward process. The sensors are provided with a robust mounting fixture that allows adjustment of the sensor mounting position for optimum performance. Sensor separation distance is determined and displayed on the SLF-200 during the initial system setup. The meter was designed with no moving parts, thus reducing its cost of ownership and eliminating common maintenance requirements.

Features

- No moving parts
- Low cost of ownership
- Easy installation with clamp-on sensor
- No cutting pipes
- No intrusion into the process line
- No pressure drop
- Increased energy savings
- Zero maintenance requirements
- No need for meter recalibration
- Wide rangeability with a single unit
- Fast response time

Model SLF-200
Ultrasonic Liquid Flow Meter

Specifications
Display/Converter

Measurement Method	Time difference calculation method of ultrasonic wave propagation
Accuracy	±1.5% RD (operating range 3.3 to 33 ft./sec.)
	±1% FS (operating range below 3.3 ft./sec.)
Repeatability	±0.2%
Applicable Liquid	Clean liquids
Applicable Pipes	Nominal diameter: 1–6"
Material	PVC, stainless steel, steel cast iron, and others
Analog Output Range	Setting within 0–33 ft./sec.
Enclosure	Panel Mount IP50
Material	Glass fiber resin (Noril)
Installation Temperature Range	32° to 122° F (0° to 50° C)
Power Supply	12–30 VDC
Power Consumption	2.5 watts or less
Installation	Panel mount

Specifications (cont'd)

Analog Output

Output Information	Instantaneous forward flow
Output Signal	4–20 mA
Load Resistance	450 ohm or less
Flow Rate Low Cut Off	0–10% (variable in 1% steps)

Contact Output

Output Information	Selectable from accumulated pulse of forward flow, abnormal receiving waveform and upper/lower limit flow rate
Output Signal	Open collector no voltage
Rating	30 VDC @ 0.25A
Scaled Units	Selectable from: 0.1, 1, 10, 100 Gal or Lit
Low Cut Off	0–10% in 1% steps
Weight	Approximately 1 lb.

Display

LCD Display	16 characters x 2 lines
Information	Rate and total
Available Units	GPH, GPM, LPH, LPM, FPM and FPS

Sensor

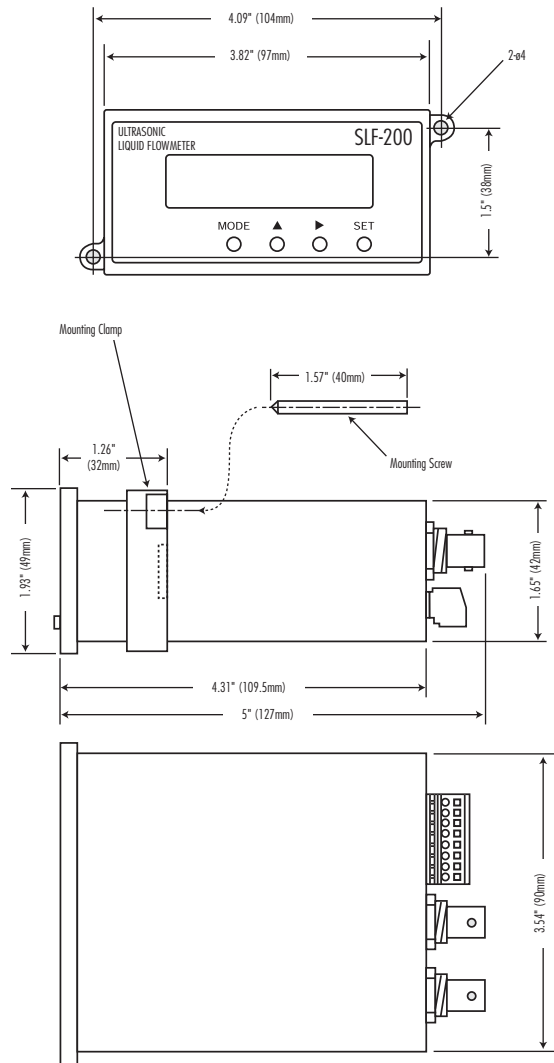|	
Model	SLT-20
Material	304SS and epoxy resin
Structure	Clamp-on method
Installation	V type
Operating Temperature	-4° to 140° F (-20° to 60° C)
Cable Length	16.4 ft. (5 m)
Weight	Approximately 1 lb.
Straight Run	10D upstream and 5D downstream minimum

Model Number

SLF-200

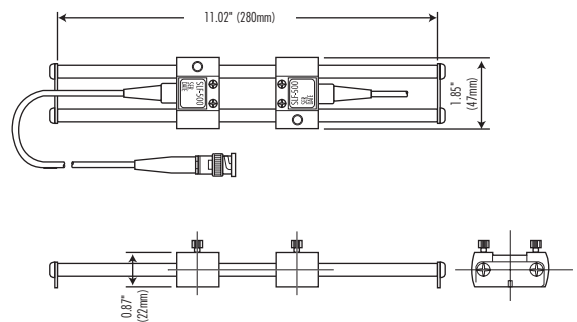|	
Includes	Display/converter, sensors and cabling

Specifications are for reference only and are subject to change without notice.

Dimensions

Converter

Sensor

Local Representative: