Model SLF-100

Ultrasonic Liquid Flow Meter

Description

The Model SLF-100 Ultrasonic Flow Meter is an accurate, reliable and cost-effective clamp-on ultrasonic instrument capable of measuring low flow rates through small diameter PFA tube without altering the piping. Typical applications are D.I. water and chemical solutions in the semiconductor market, or any installation when it is preferable not to have an instrument exposed to the process fluid. The SLF-100 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-100 Ultrasonic Liquid Flow Meter provides outstanding accuracy and repeatability. The same meter can be used on 3/8", 1/2" and 3/4" line sizes without recalibration, and will cover a wide range of flow rates.

Installation and setup of the Model SLF-100 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 reconfiguring for different applications a straightforward process. The sensors are provided with a robust mounting fixture that provides line size position indicators for adjustment of the sensor mounting position for optimum performance. The meter was designed with no moving parts, thus reducing its cost of ownership and eliminating common maintenance requirements.



- 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







Specifications

Display/Converter

Measurement Method

Accuracy

Repeatability **Applicable Liquids Applicable Pipes** Flow Rate

Analog Output Range Temperature Range Power Consumption

Time difference calculation method of ultrasonic wave propagation ±2% RD (operating range 3.3 to 33 ft./sec.)

±0.2%

D.I.W. and chemical solutions Nominal diameter: 3/8", 1/2", 3/4" 3/8": 0.4 - 4.4 GPM with 0.250" I.D. 1/2": 1.2 - 11.8 GPM with 0.375" I.D. 3/4": 3.1 – 31.1 GPM with 0.625" I.D.

Setting within 0-33 ft./sec.

Panel Mount IP50 Glass fiber resin (Noril)

50° to 122° F (10° to 50° C) 12-30 VDC 1.5 watts or less 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 and upper/lower limit

flow rate

Output Signal Open collector no voltage

Rating 30 VDC @ 0.25 A

Scaled Units Selectable from: 0.1, 1, 10, 100 Gal

or Li

Low Cut Off 0 to 10% in 1% steps

Weight Approximately 1 lb.

Display

LCD Display 16 characters x 2 lines

Information Rate and Total

Available Units GPM, GPH, ml/sec., ml/min., LPM,

LPH, m/s, cm/s, FPS and FPM

Sensor

Model SLT-12

Structure Clamp-on method

Material PFA tube

Operating Temperature 50° to 140° F (10° to 60° C)

Cable Length 16.4 ft. (5 m)

Weight Approximately 0.5 lbs.

Straight Run 10D upstream and 5D downstream

minimum

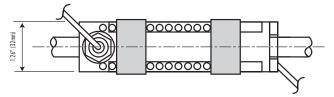
Model Number

SLF-100

Includes Display/converter, sensors and

cabling

Sensor



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

Local Representative:

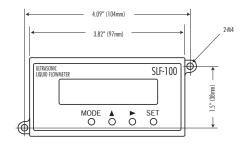


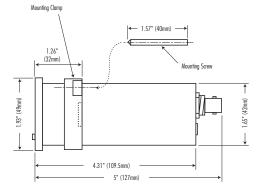


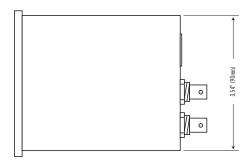
8930 S. Beck Avenue, Suite 107, Tempe, Arizona 85284 USA
Tel: (480) 240-3400 • Fax: (480) 240-3401 • Toll Free: 1-800-528-4225
E-mail: ftimarket@ftimeters.com • Web: www.ftimeters.com

Dimensions

Converter







0000000

4.72" (120mm) 4.92" (125mm)