Model μLF-100 Ultrasonic Micro Liquid Flow Meter

Description

The Model µLF-100 Model Ultrasonic Flow Meter is an accurate, reliable and cost-effective ultrasonic instrument capable of measuring very low flow rates through small diameter PFA tube. Typical applications are D.I. water and chemical solutions in the semiconductor market. A molded sensor assembly is available in two different sizes for installation in 6mm and 3mm O.D. PFA tubing.

The μ LF-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 µLF-100 Ultrasonic Liquid Flow Meter provides outstanding accuracy and repeatability.

Installation and setup of the Model µLF-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 a straightforward process. The sensors are provided in a robust, molded mounting fixture designed for the specific line size for optimum performance. 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
- Increased energy savings
- Zero maintenance requirements
- No need for meter recalibration
- Wide rangeability with a single unit
- Fast response time
- Ultra low flow rates
- 6mm O.D. x 4mm I.D. and 3mm O.D. x 2mm I.D. line sizes
- PFA line material







Ultrasonic Micro Liquid Flow Meter

Specifications

Display/Converter

Measurement Method

Accuracy

Repeatability **Applicable Liquids Applicable Pipes**

Flow Rate

Analog Output Range Enclosure Material Installation Temperature Range Power Supply **Power Consumption** Installation **Analog Output**

Output Information **Output Signal** Load Resistance

Time difference calculation method of ultrasonic wave propagation

±2% RD (operating range 1.6 to 33 ft./sec.)

+0.2%

D.I.W. and chemical solutions 6mm O.D. x 4mm I.D. and 3mm O.D. x 2mm I.D.

-6 sensor: 277 - 5560 ml/min.

-3 sensor: 94 – 1881 ml/min.

Setting within 0-33 ft./sec.

Panel Mount IP50

Glass fiber resin (Noril)

50° to 122° F (10° to 50° C) 12-30 VDC 3.6 watts or less Panel mount

Instantaneous forward flow 4-20 mA 450 ohm or less

Specifications (cont'd)

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: 1ml, 10ml, 0.1L, 1L,

0.001G, 0.01G, 0.1G and 1G

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 LPH, LPM, ml/min., m/s, cm/s,

GPH, GPM, FPM and FPS

Sensor

Model μ LT-6 and μ LT-3MaterialPFA tube

Installation In-line wetted sensors

Operating Temperature 50° to 158° F (10° to 70° C)

Cable Length 16.4 ft. (5 m)

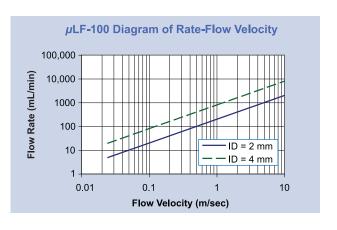
Weight Approximately 0.5 lbs.

Straight Run 10D upstream and 5D downstream

minimum

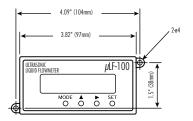
Model Number

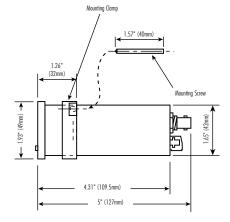
pLF-100-6Line size: 6mm O.D. x 4mm I.D.pLF-100-3Line size: 3mm O.D. x 2mm I.D.IncludesDisplay/converter, sensors and cabling



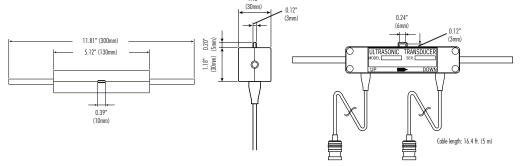
Dimensions

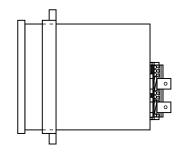
Converter





Sensor





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

Local Representative:





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