ULTRASONIC FLOWMETER SAMPLE BOOK

TYPE: LRF-3000H
Concentrating on Flow Measurement

LONGRUN
Industrial Instrument Co., Ltd
Introduction

The model LRF-3000H portable ultrasonic flowmeter is a true state-of-the-art transit-time flow meter designed by using the latest digital technology and intelligent self-correcting sonic transmission technology.

LRF-3000H features high reliability and low maintenance. Compared with other flow meters and other ultrasonic flow meters, LRF-3000H is characterized by high accuracy, high reliability, superior performance, rapid response to flow changes, and low cost.

Features

- Small volume and light weight make it ease of portability and operation.
- Easy and convenient magnetic clamp-on installation of transducers.
- One pair of transducers for a wide range of pipe sizes from DN25mm to DN1200mm.
- Backlit LCD display. Chinese and English selectable language.
- Daily, monthly and yearly/positive, negative and net flow totalizers.
- 8 GB SD memory card for high capacity data logging.

Applications

Water supply, Petrochemical, Waste water treatment, Chemical, Crude oil, Beverages, Pure/Ultra-pure water, Lubricant oil, Industrial process water, Seawater desalinization, Cooling/Heating water, Many others...
Standard Configuration

1. Transmitter with large screen backlit 4-line display
2. A pair of magnetic clamp-on transducers with 9mx2 cables
3. A pair of stainless steel brackets (guide rails) for use of transducers
4. A pair of stainless steel chains to fasten the transducers
5. Power supply / Battery charger
6. 4-20mA output cable
7. Card reader
8. Ultrasonic couplant
9. High-strength carrying case

Product Size

Transmitter size (mm)

Transducer size (mm)
Wiring Specification

- Items Specification
  - Velocity range: 0~±12m/s
  - Pipe size: 25mm~1200mm
  - Repeatability: 0.2%
  - Linearity: ±1%
  - Output: Analogue output: 4~20mA, Max7500hm
  - SD Card: Storage: 8GB
  - Max: 512 files
  - Interval: 5~60 seconds
  - Display: 64×128 alphanumeric, backlit LCD
  - Temperature: -10°C~60°C
  - Measured medium: -40°C~80°C (Standard)
  - Humidity: 0~99%RH, non-condensing
  - Transmitter: IP54
  - Encapsulated design: IP68
  - Standard cable length: 16ft(5m)
  - Weight: Transmitter: 1kg
Measurement Site Selection

When selecting a measurement site, it is important to select an area where the fluid flow profile is fully developed to guarantee a highly accurate measurement. Use the following guidelines to select a proper installation site:

- Choose a section of pipe that is always full of liquid, such as a vertical pipe with flow in the upward direction or a full horizontal pipe.
- Ensure enough straight pipe length at least equal to the figure shown below for the upstream and downstream transducers installation.
- Ensure that the pipe surface temperature at the measuring point is within the transducer temperature limits.
- Consider the inside condition of the pipe carefully. If possible, select a section of pipe where the inside is free of excessive corrosion or scaling.

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