

Economical Ultrasonic Transit-Time Liquid Flow Meter

FEATURES

- One meter for a wide range of pipe sizes from 2 to 48 inches (50.8 to 1200 mm)
- Clamp-on, encapsulated IP 68 sensors require no pipe cuttings, no plant shutdown, and are hygienic measurements, leading to lower installation and labor costs
- Measurement is independent of fluid conductivity for a wider applicability compared to magnetic meters
- Programmable frequency output emulates turbine/propeller meters
- Accuracy +/- 1.0% of reading from 1.6 to 40 ft/s (0.49 to 12 m/s)
- Repeatability +/- 0.3% of reading
- Wide operating temperature range 32°F to 140°F (0°C to 60°C)
- 16 tactile keys with 12 dual-function keys for easy setup
- Configurable pulse and relay output
- 10 to 36 VDC at 1A power supply (sold separately)
- Daily, monthly, and yearly totalized flow
- Lightweight 1.5 lb (0.7 kg); PC/ABS IP 65 transmitter
- Modbus RTU, RS-485

InnovaSonic[®] 203



DESCRIPTION

Sierra's economical InnovaSonic[®] 203 ultrasonic liquid flow meter delivers highly accurate and repeatable flow measurement for liquids at an economical price. Ideal for pipes up to 48 inches (1200 mm) in diameter, the 203 promises accuracy to +/-1.0% of reading, repeatability of +/-0.3% of reading and a temperature range of 32°F to 140°F (0°C to 60°C).

The 203 offers low power consumption and high reliability at a very competitive price. An easy to read display and dual-function quick keys make setup quick and simple.

The 203 features a programmable frequency output, a relay output and a programmable current loop output. RS-485 and Modbus RTU are standard.

The InnovaSonic 203 is packaged in a lightweight polycarbonate IP 65 housing and includes clamp-on encapsulated IP 68 sensors that are easy to install and require no pipe cutting, reducing installation and labor costs.



www.sierrainstruments.com



PERFORMANCE SPECIFICATIONS

- Accuracy**
+/- 1.0% of reading from 1.6 to 40 ft/s (0.49 to 12 m/s)
- Repeatability**
+/- 0.3% of reading
- Pipe Size**
2 to 48 inches (50.8 to 1200 mm)

OPERATION SPECIFICATIONS

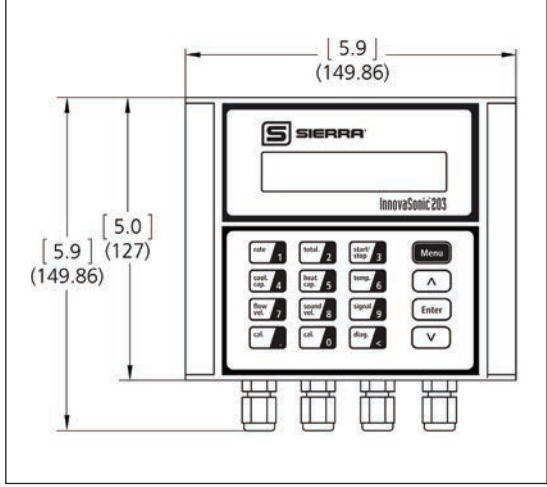
- Flow Range**
1.6 to 40 ft/s (0.49 to 12 m/s)
- Temperature**
Ambient: 14°F to 122°F (-10°C to 50°C)
Operating: 32°F to 140°F (0°C to 60°C)
- Power Supply**
10 to 36 VDC at 1A (sold separately)
- Output**
 - Analog: 4 to 20 mA current loop (max load 750 Ω)
 - Pulse output: 0 to 9999 Hz, OCT, (min. and max. frequency is adjustable)
 - Relay output: SPST, max 1 Hz, (0.3 A@ 125VAC or 1A @ 30VDC)
 - Digital output: Modbus RTU, RS-485
- Keypad**
16 tactile keys with 12 dual-function keys for easy setup
- Display**
40 character, 2 line (20x2) lattice alphanumeric, backlit LCD
- Humidity**
Up to 99% RH (non-condensing)

PHYSICAL SPECIFICATIONS

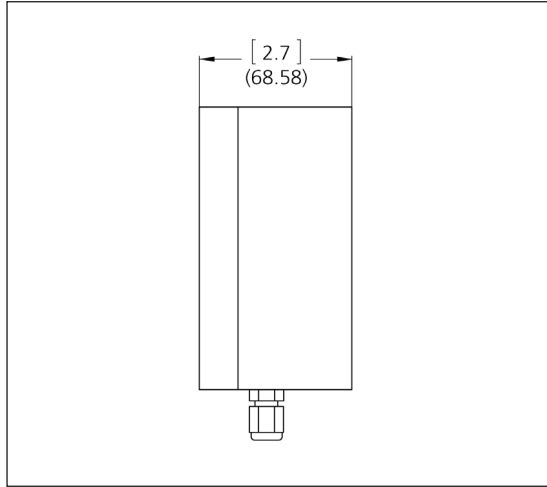
- Transmitter**
NEMA 4X, IP 65 (PC/ABS)
- Transducer**
Encapsulated design IP 68
Standard cable length: 30 ft (9 m)
Maximum cable length: 100 ft (30 m)
- Weight**
Transmitter: approximately 1.5 lb. (.7 kg)
Transducer: approximately 0.9 lb. (0.4 kg)

DIMENSIONS

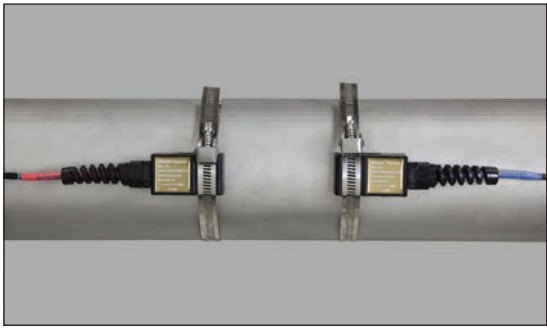
Front View 203 Transmitter



Side View 203 Transmitter

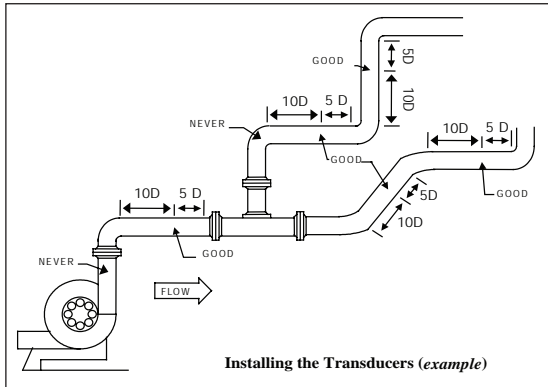


Front View Clamp-on Transducers



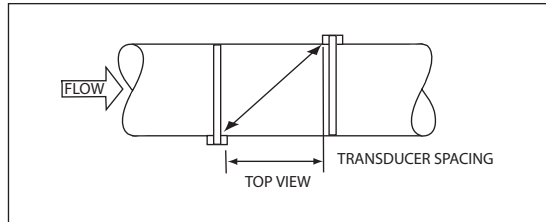
OPTIMAL INSTALLATION LOCATIONS

Transducer Installation Examples

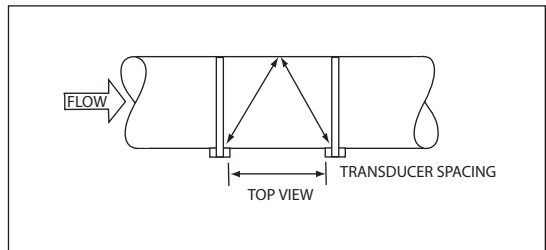


TRANSDUCER SPACING REQUIREMENTS

Z Method Transducer Spacing



V Method Transducer Spacing



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