Portable Ultrasonic Transit-Time Flow Meter

Features

- Accuracy +/- 1.0% of reading; repeatability +/- 0.3% of full scale; linearity +/-1.0% of reading
- Flowrange 0 to 40 ft/s (0 to 12 m/s)
- Wide measurement temperature range -40°F to +176°F (-40°C to 80°C)
- One meter for a wide range of pipe sizes 1.0" to 48" (25mm to 1200mm)
- 11 VDC rechargeable lithium-ion battery (continuous operation for up to16 hours)
- Analog output 4 to 20 mA (max 750 ohms)
- NEMA 13 (IP 54) transmitter with tactile entry keys and 64 x 128 alphanumeric backlit LCD
- Ambient conditions 14°F to 122°F (-10°C to 60°C). Up to 99% relative humidity (non-condensing)
- Encapsulated transducers; IP 68 with 16 ft (5m) standard cable
- 1GB SD memory card for high capacity data logging (512 files max; interval 5 to 60 seconds)
- Lightweight 2.2lb (1.0kg) and easily transportable
- Low installation effort and costs
- Clamp-on sensors require no pipe cutting or process interruption and no plant shut-down
- Magnetic sensor clamping fixture with slipscale gage; chain straps included for nonmagnetic pipe
- Hygienic measurement, no risk of contamination, suitable for ultra clean liquids
- Cost advantages when used with large diameter pipes, high pressure systems, etc



www.sierrainstruments.com





Description

S ierra's next generation Innova-Sonic[®] 210i ultrasonic flow meter succeeds at delivering portability and expanded functionality at a significantly reduced cost.

The 210i is ideal for precisely measuring a wide range of liquid flows and temperatures. This universal transit-time meter features a pushbutton interface, ergonomic handheld design and a large digital display that significantly simplifies set-up and data collection. Its high-powered ultrasonic pulse with improved digital signal processing requires just one set of transducers for a wide range of pipe sizes and materials including metal, plastic and concrete.

While principally designed for clean liquids, the 210i operates effectively with the minimal quantity of air bubbles or suspended solids found in most industrial applications.

The 210i provides a powerful and extremely user-friendly programming menu that includes instantaneous flow rate, positive total, negative total, net total, velocity, date & time, and daily flow results. Its 1GB SD memory card promises high capacity data logging and a rechargeable lithium-ion battery supports continuous operation for a minimum of 16 hours.

A fully field-portable, lightweight, yet rugged and totally selfcontained flow measurement package, the Sierra 210i comes standard with a sturdy and convenient pelican carrying case, noninvasive clamp-on transducers installed into compact mounting racks (magnetic & cable mount), coupling compound and a start-up CD. And it's easy to use. It sets up in five minutes or less.

Performance Specifications Ordering The Model 210i Flow Range: 0 to +/- 40 ft/s (0 to +/-12 m/s) 210i 16 Accuracy: +/- 1.0% of reading Repeatability: +/- 0.3% of reading PARENT MODEL NUMBER Linearity: +/-1.0% of reading 210i Portable Innova-Sonic Ultrasonic Flowmeter Pipe Size: 1.0" in to 48" (25mm to 1200mm) OUTPUT **Operating Specifications** 1 Pushbutton tactile keys with display Note: Bluetooth interface is still avalable (contact factory) **Output:** Analog: 0/4 to 20mA (max load 750 Ω) Power Supply: 11.1 VDC rechargeable lithium-ion battery (continuous operation CABLE LENGTH of up to 16 hours) 16 ft. (5m) standard cable length Keypad/Display: Tactile keys with 64 x128 alphanumeric backlit LCD **xxx** Up to 100 ft (30 m) Ambient Temperature: 14°F to 122°F (-10°C to 50°C); up to 99% relative humidity (non-condensing) **OPTION: NIST TRACEABLE** Fluid Temperature: -40°F to 176°F (-40°C to 80°C) NIST 5 point Calibration Certification traceable to NIST. Add

Physical Specifications

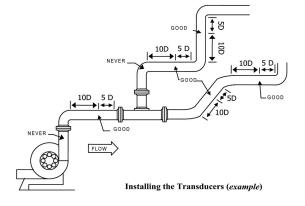
Transmitter: NEMA 13 (IP 54)

Transducer: Encapsulated design, IP 68; Standard cable 16 ft (5 m)

Electronics Dimensions: H = 7.8''(19.5 cm) W = 5.3''(13.5 cm) D = 1.4''(3.5 cm)Weight: 2.2 lb (1.0 kg)

Installation Examples

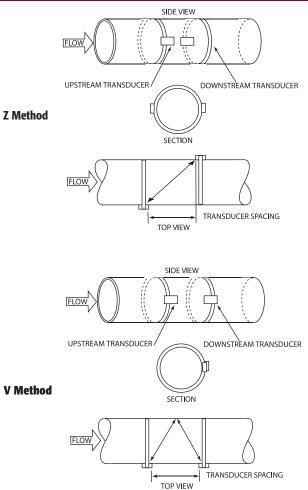




two weeks to standard delivery

Note: Buy the 210i-1-16 online for immediate delivery at sierrainstruments.com/shop

Transducer Spacing Requirements



SIERRA INSTRUMENTS, NORTH AMERICA • 5 Harris Court, Building L • Monterey, California • (800) 866-0200 • (831) 373-0200 • Fax (831) 373-4402 • www.sierrainstruments.com SIERRA INSTRUMENTS, EUROPE • Bijlmansweid 2 • 1934RE Egmond aan den Hoef • The Netherlands • +31 72 5071400 • Fax: +31 72 5071401 SIERRA INSTRUMENTS, ASIA • Rm.618, Tomson Centre, Bldg. A • 188 Zhang Yang Road • Pu Dong New District • Shanghai, P.R. China 200122 • +8621 5879 8521/22 • Fax: +8621 5879 8586