Sierra's portable InnovaSonic® 210 ultrasonic clamp-on liquid flow meter enables the user to do flow measurement checks at many points in a flow process without the need for a permanent installation.

Battery powered, lightweight, and rugged, the 210 is a totally self-contained flow measurement package. 210 comes standard with a sturdy and convenient pelican carrying case, transducers installed into compact, easy to set up mounting racks (magnetic & cable mount), coupling compound and a start-up CD. Get high accuracy measurements in five minutes or less. This universal transit-time meter features a dual-function pushbutton interface, ergonomic handheld design and a beautiful backlit color digital display that significantly simplifies setup and data collection.

The 210 is ideal for precisely measuring a wide range of liquid flows. 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 210 operates effectively with the minimal quantity of air bubbles or suspended solids found in most industrial applications.

The 210 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 8 GB SD memory card promises high-capacity data logging and a rechargeable lithium-ion battery supports continuous operation up to 10 hours.
Accuracy
+/- 0.5% of reading from 0.03 to 40 ft/s (0.01 to 12 m/s)

Repeatability
+/- 0.1% of full scale

Pipe Size
2 to 236 inches (50.8 to 6000 mm)

Flow Range
0.03 to 40 ft/s (0.01 to 12 m/s)

Temperature
Ambient: 14°F to 122°F (-10°C to 50°C)
Operating: -40°F to 176°F (-40°C to 80°C)

Power Supply
11.1 VDC rechargeable lithium-ion battery (continuous operation of up to 10 hours)

Output
Analog: 4 to 20 mA current loop (max load 750 Ω)

Keypad
24 tactile keys with 12 dual-function and 7 quick setup keys

Display
3.5 inch backlit color LCD display (320 x 240)

Humidity
Up to 99% RH (non-condensing)

Data Logging
8 GB SD memory card (not .HC) for high-capacity data logging. 1 to 9,999 min recording sessions, 65,536 session capacity.

Transmitter
NEMA 13 (IP 54)

Transducer
Encapsulated design IP 68
Standard cable length: 16 ft (5 m)
Maximum cable length: 100 ft (30 m)

Electronics Dimensions
Transmitter: H = 7.8 inches (19.5 cm) W = 5.3 inches (13.5 cm) D = 1.4 inches (3.5 cm)
Transducer: H = 11.75 inches (29.85 cm) W = 1.5 inches (3.81 cm) D = 1.5 inches (3.81 cm)

Weight
Transmitter: 1.4 lbs (.6 kg)
Transducer: 1 lbs (.4 kg)
### Feature 1: Interface

**Feature:** Push-button data entry with 24 tactile keys; 12 dual function and 7 quick setup keys; comes with display

### Feature 2: Transducer and Cable Length

**Transducer:** Clamp-on portable transducers with two magnetic mounting racks. Operating temperature -40°F to 176°F (-40°C to 80°C), 16 ft. (5m) standard cable length. Longer lead time for longer cable lengths.

### Option: NIST Traceable Certificate

**Certificate:** 5-point calibration certification traceable to NIST. Add two weeks to standard delivery.

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