

# Ultrasonic Flow Meter Optimized For Thermal Energy/BTU

## FEATURES

- One meter for a wide range of pipe sizes from 2 to 236 inches (50 to 6000 mm)
- Clamp-on or insertion transducers measure bi-directional flow
- Optional clamp-on or insertion PT 100 temperature inputs for thermal energy/BTU measurement
- Optional current input modules for pressure, temperature, or density
- Accuracy  $\pm$  0.5% of reading from 0.16 to 40 ft/s (0.05 to 12 m/s)
- Repeatability  $\pm$  0.1% of full scale
- Clamp-on transducers operating temperature range: 14°F to 176°F (-10°C to 80°C)
- Clamp-on high-temperature transducers operating temperature range: 14°F to 302°F (-10°C to 150°C)
- 1.5 in (38.1 mm) insertion DIA transducers; operating temperature range: -40°F to 176°F (-40°C to 80°C)
- Key pad with 16 tactile keys with 14 dual-function plus six quick set up keys
- Flow totalizer
- Automatically detects sensor type, calculates optimal mounting
- Internal memory data logger
- Modbus RTU RS-485 output: Sierra Protocol over RS-232, USB, BACnet



[www.sierrainstruments.com](http://www.sierrainstruments.com)



# InnovaSonic 207i



## DESCRIPTION

The InnovaSonic® 207i transit-time ultrasonic flow meter is an innovative clamp-on or insertion transit-time ultrasonic flow meter for general industry use on liquid flows. The 207i is optimized for thermal energy/BTU measurement of liquid flows to give you the critical flow energy data you need to manage costs and improve efficiency.

A critical element in a thermal energy measurement is the amount of heat transferred between the hot flow and cold flow legs. Sierra leads the industry in making these accurate measurements with our advanced thermal mass flow technology.

Our proprietary Raptor II operating system works with our fluid properties database to provide real time density compensation. By accurately measuring the fluid flow, taking into account all fluid properties, and making a precise  $\Delta T$  measurement, thermal energy/BTU's can be calculated with a high degree of accuracy.

With a robust stainless steel enclosure, the 207i features a large backlit display and dual-function keypad with audible feedback. This makes it simple and convenient to set up and use. Clamp-on sensors mean no pipe cutting or expensive plumbing to install, making the 207i thermal energy/BTU a complete flow metering system in a wide range of applications.

The InnovaSonic 207i features NIST traceable calibration of the entire system and is a complete thermal energy/BTU metering package you can trust for highly accurate flow energy measurement.