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## Sierra Introduces Ultrasonic Thermal Energy/ BTU Flow Meter For Liquid Energy Consumption Measurement

### FOR IMMEDIATE RELEASE

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**MONTEREY, CA – August 7, 2009** – Sierra's Innova-Sonic® Model 205 Thermal Energy/ BTU Meter is a transit-time ultrasonic flow meter designed to measure the thermal energy flow rate and totalized energy consumption in liquid heating and cooling applications including HVAC, office buildings, large condominium or apartment developments, solar thermal heating and geothermal. Non-intrusive clamp-on ultrasonic sensor technology makes for easy and economical installation.

The Model 205 Thermal Energy/ BTU meter offers high accuracy (+/- 0.5% of reading) enabling custody transfer of thermal energy. Built-in totalizers and data loggers are used to record daily, monthly and yearly totalized energy usage and report total energy used. These functions make it easy to account for energy usage and accurately allocate costs to end users. A built-in SD card and a supplied data-analysis and graphing program allows for easy storage and analysis of collected data.

The Innova-Sonic Model® 205 Thermal Energy/ BTU meter includes ultrasonic transducers, remote electronics, and two PT100 resistance temperature detectors (RTD's) supplied by Sierra. The two RTD's (either insertion or surface-mounted) measure the temperature of the supply and return flow. The meter's electronics then uses these inputs, along with the measured flow rate from the ultrasonic transducers, in order to calculate the thermal energy flow rate in user-defined units (BTU/hr or KJoules/hr for example).

The Model 205 Thermal Energy/ BTU Meter features a wide operating temperature range of -40°F to +340F (-40°C to 170°C), and a bi-directional flow range of 0.0 to 40 fps liquids (0-12 mps). The instrument can be used for a wide range of pipe sizes from 1"-200" (25mm-5000mm).

Visit <http://sierrainstruments.com/products/205e.html> for more information.

Complete technical information is also available free of charge from Sierra Instruments, Inc., 5 Harris Court, Building L, Monterey, CA 93940. PH (800) 866-0200, FAX (831) 373-4402.

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

MORE



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**About Sierra**

A trusted global leader in the development of flow meters and controllers for over 35 years, Sierra Instruments manufactures high performance mass flow meters and controllers for nearly any gas, liquid, or steam application. With over 150 offices in 50 countries, Sierra is positioned to provide their innovative products and support to a wide variety of industries.

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