



Your complete flow  
energy solution is here.

flow meter  
technologies  
designed,  
built and  
calibrated  
in California  
by Sierra.

For what we call our Big-3, Sierra has become a recognized expert in thermal mass (QuadraTherm®), vortex shedding (InnovaMass®), and transit-time ultrasonic (InnovaSonic®). Sierra is the only company in the USA to design, build and calibrate all three flow technologies.

The Big-3 are optimized to be a complete solution for flow energy measurement—facility flows that impact costs like compressed air, natural gas, steam, and hot or chilled water.

As new apps and improvements become available, all Big-3 technologies benefit and are field firmware upgradable.

# Thermal

# Vortex

# Ultrasonic

## QuadraTherm®



- Accuracy: Up to +/- 0.5% of reading
- Gases: Air, natural gas, mixtures, flammables, inert gases
- Flow rates: Down to 0.03 smps (0.1 sfps) & up to 305 smps (60,000 sfpm)
- Pipe/duct sizes 2 inches to 72 inches (1.8M)
- Hot-tap probe retractor
- 100:1 turndown

### APPS

- ValidCal™ Diagnostics
- Flow Totalizer
- MeterTuning
- Dial-A-Pipe™: Change pipe size
- Dial-A-Gas™: Change gas type
- qMix

[Watch video >](#)  
[sierrainstruments.com/thermal-principle](http://sierrainstruments.com/thermal-principle)



## InnovaMass®



- Accuracy: Up to +/-0.7% of reading
- Fluids: Mass or volumetric flow metering of gases, liquids, steam
- Pipe/duct size: Insertion version: 2 inches (50.8mm) to 72 inches (1.8M)  
 Inline version: 1 inch (DN25) to 8 inches (DN200)
- Hot-tap probe retractor
- 30:1 turndown

### APPS

- ValidCal™ Diagnostics
- Datalogging
- MeterTuning
- Dial-A-Pipe™: Change pipe size
- Dial-A-Fluid™: Change fluid type
- FloPro™

[Watch video >](#)  
[sierrainstruments.com/innovamass-video](http://sierrainstruments.com/innovamass-video)



## InnovaSonic®



- Accuracy: +/- 0.5% of reading from 0.16 to 40 ft/s (0.05 to 12 m/s)
- Fluids: Water and all liquids
- Fits a wide range of pipe sizes from 2 inches 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

### APPS

- ValidCal™ Diagnostics
- Datalogging
- MeterTuning
- Quick setup
- Signal setup
- EnergyPro™

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