

# GE Sensing

## Applications

- Sub-meter thermal energy usage to tenants, departments or buildings for accurate accounting
- Sub-meter all heat transfer and energy including mass flow and steam, chilled water, water/glycol mixture, condenser water, potable water, high-temperature hot water and condensate
- Remote monitor thermal energy use, flow and temperature via Ethernet TCP/IP, Modbus, OPC server or tie into PLCs and existing data acquisition server
- Monitor efficiency of HVAC equipment such as chillers, cooling towers, boilers and heat exchangers
- Rental meters and services for flow surveys, commissioning, installation, annual flow verifications and calibrations

## Innovative and Proven Technology

Panametrics transit-time ultrasonic flowmeters provide unrivaled flexibility. Portable and dedicated clamp-on meters for liquid and gas streams can achieve accuracy without interrupting service to your clients. Wetted systems provide higher accuracy with low installation costs.

PanaFlow MV multivariable vortex flowmeters represent the next generation of vortex technology. They help with energy management through accurate measurement of both temperature and mass flow simultaneously. Other meter types use external process measurements with multiple devices not installed in the same location as the flowmeter, leading to inaccurate readings. PanaFlow MV measures velocity, temperature and pressure at a single location for more accurate process measurement.

Rising energy prices make it important for large industrial facilities with multiple buildings and large campuses, universities, high-rise buildings, government buildings, ships, hospitals, museums, district heating and cooling suppliers, and building automation suppliers to accurately monitor energy consumption.

The services team located around the globe is available to install your meters and validate or calibrate the installation. GE Sensing is the ideal partner for energy management solutions.

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## Flow and Energy Meters for District and Campus Energy Management

Panametrics has joined other GE high-technology sensing businesses under a new name—GE Sensing.

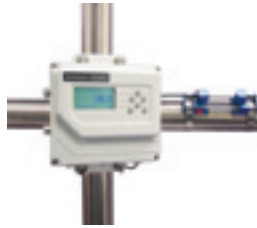


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## Liquid Flow

Panametrics standard-setting transit-time ultrasonic flowmeters are available in both clamp-on and wetted configurations. They can be simple loop-powered meters or multi-channel meters with datalogging and analog input capabilities.

This flexibility translates to the applications within your facilities. Decades of experience allow us to specify the appropriate meter, configuration and installation location to ensure the best results for you.



## Steam and Natural Gas Flow

With excellent low-end resolution, Panametrics ultrasonic steam and gas flowmeters offer unrivaled rangeability. Where other technologies may require two or three meters to measure all flow rates, our technology only requires one. Imagine knowing your usage rate night or day, summer or winter, without turning a valve.



Panametrics meters have no pressure drop or energy loss, no moving parts to wear or clog, and no shutdown requirement for annual flow verifications or loop calibrations.

PanaFlow MV vortex flowmeters are ideal for cost-effective, accurate and reliable mass flow measurement in small diameter pipes. Their multivariable design measures velocity, temperature and pressure in the same location, reducing system complexity and minimizing both capital cost and installation cost. We offer a wide range of options and meter configurations to meet your specific application requirements.



## Energy Flow

Start with industry-leading ultrasonic flowmeter technology, add supply and return temperature inputs, and the result is the most dependable energy flow measurement for your hot water, chilled water and condensate sub-metering applications.

Clamp-on to existing pipes with an energy meter to verify system efficiency or bill for usage. Wetted transducer installations provide the highest accuracy with no pressure drop.

Troubleshoot existing meters and leaking valves with the Transport<sup>®</sup> PT878, the most powerful portable flowmeter available. A true hand held meter, it operates all day on a battery.



## Flow Surveys

Global presence means that you can contract a GE Sensing field service technician or engineer to perform a flow survey anywhere in the world. We can perform measurement audits for all your flow requirements. These measurements are made with portable liquid and gas clamp-on meters.

## Centralized Monitoring, Alarm and Reporting

PanaWatch<sup>™</sup> provides a scalable data portal for your flow and energy readings. Bring your wired or wireless data into a central location for monitoring, alarm, and reporting.



## Field Services

Our local, highly trained staff will support you, no matter where you are in the world and we provide commissioning start-up services, rental equipment, repair and preventative maintenance. We offer extended maintenance agreements so that your equipment operates reliably and accurately for years.



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