SPARTAN CONTROLS

FLEXIM

Flow Audits

Verify Pump Performance

Performance Evaluation

Thermal Energy Measurement

Mass Flow Measurement

Certification of Existing Flow Meters

Valve Leak Test

Fire Water Pump Testing

Leak Detection

Regulatory Compliance Metering

Flow Measurement Services for all Industries

VERIFICATION ~ COMPLIANCE ~ CALIBRATION

Non-intrusive Flow Measurement with FLEXIM

In today's energy-efficient and environmentally conscious atmosphere, facility and plant metering must be verified and calibrated for accuracy to meet audit and regulatory demands.

This is especially true for energy intensive industries such as the Hydrocarbon value chain but also is pertinent in all industries where energy is measured and consumed. Spartan Controls, FLEXIM Flow Measurement Service offers the knowledge, experience, and instrumentation to answer your questions.

How Do You Know?

- » **If your pumps are functioning properly?**
- » **If your exchangers are performing?**
- » **If your custody meters are under or over billing?**
- » **If cooling towers are operating properly?**
- » **If your processes are operating at peak efficiency?**
- » **If DCS/PLC algorithms are correct?**
- » **If your flow meters are drifting?**

FLEXIM'S highly portable and versatile flow meters are hazardous area approved (FM approved, Class I, Div. II) and allow for measurements in even the most demanding environments, from cryogenic to high-temperature applications.

Providing process insight for optimization opportunities within:

Refineries:
- » Crude oil
- » Fuel gas and hydrogen
- » Atmospheric and vacuum distillation units
- » Coker feed line
- » Hydrocarbon product lines

Oil & Gas Transport:
- » Crude and NGL product pipelines
- » Natural gas pipelines

Chemical & Petrochemical Industries:
- » Caustics and acids
- » Industrial gases
- » High-temperature processes
- » Heat exchangers

as well as within adjacent processing industries.

What makes us different:

NIST traceable reference meter

30+ years industry experience

Non-intrusive technology, thus no need for process shutdowns

Ability to measure at low-velocity flow rates that no other technology can capture

Hazardous area approved instrumentation (FM, Class I, Div. II)
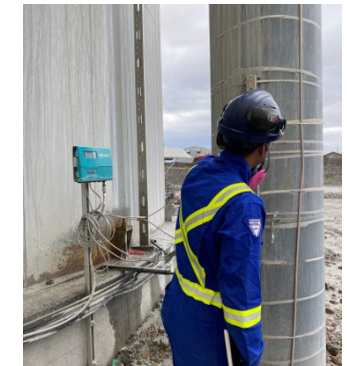
Ability to measure at extreme temperatures from -200°C to +630°C

Service in demanding industrial environments

FLEXIM rental opportunities available

What We Do

We confirm and certify flow rates of existing volume and mass flow meters at your industry-specific application. With the highly accurate FLUXUS ultrasonic flow meters (NIST traceable to reference meter), zero flow conditions, as well as highly dynamic flow rates can be monitored and permanent meters can be checked and verified.

We also offer complete thermal energy measurements that can help you evaluate the performance of your heat exchangers or the proper operation of your cooling towers. Our RTD clamp on temperature sensors, which are matched and paired, offer an accuracy of 0.06°C.
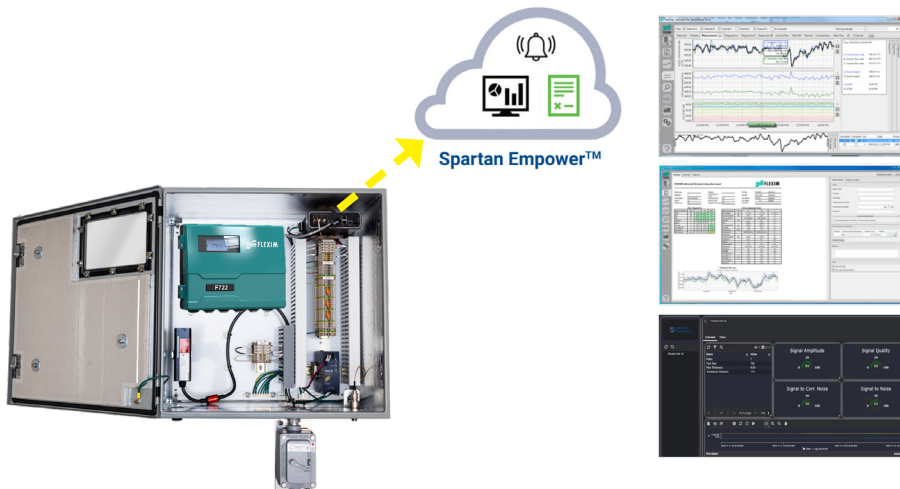

We provide formal reports, and in-depth data in a snap with the portable reference meters. The flow analysis carried out is NIST traceable and offers a high degree of accuracy and reliability. FLEXIM's sophisticated noise suppression algorithms and NIST traceable flow analysis offer a high degree of accuracy and reliability. Matched and paired transducers, integrated temperature compensation, and advanced meter verification allow for precise, detailed, and informative report generation.

The Measurement Instrumentation service team, specializes in verification and calibration or existing flow measurement devices, and flow audits where existing metering is not present. With over 30+ years of experience in Flow Measurement solutions.

Rental and Empower™ Program

Spartan Controls carries a wide array of FLEXIM transmitters and transducers available for rent to suit almost any flow measurement requirement. The rental program has fit-for-purpose transmitters from portable to winterized enclosure offerings. Spartan Controls also offers an Empower™ solution, which provides the ability to send diagnostic data to the cloud via cellular modem for process visualization, remote troubleshooting, and report generation.

Spartan Empower™

In Partnership with You

Spartan Controls, a leader in automation and process control solutions, is proud to represent FLEXIM, a global leader in non-intrusive ultrasonic flow meters. This partnership, made possible by Emerson's recent acquisition of FLEXIM, allows Spartan to bring advanced flow measurement technology to customers across Western Canada, supported by our expert team of engineers and technicians.

Call us or request a quote online 24/7

+1 (877)278-6404 | +1(403)207-0700 | info@spartancontrols.com