

# Flow Measurement Services for the Oil & Gas, Power, Chemical and Processing Industries

Meter Verification - Surveys - Flow Audits - Training -  
Calibration - Fire Pump Flow Performance Verification Surveys

## On-site Measurement Services

- Flow Audits
- Performance Evaluation
- Consumption Analysis
- Thermal Energy Measurement
- Efficiency Determination
- Pump Monitoring
- Valve Leak Tests
- Fire Water Pump Testing
- Leak Detection
- Regulatory Compliance Metering

## Verification of Installed Metering Systems

## Calibration Services

## Rental Services

## Product Training



# Check metering preserves Quality

Our flow meters convince by their accurate, reliable and long term measurement stability. As the clamp-on ultrasonic transducers are attached to the outside of the pipe wall, the measurement system is never in contact with the medium flowing inside the pipe and is therefore virtually free of wear and tear.

Conventional wetted measurement technologies are always subject to wear and eventual drift. For these types of flow meters regular functional checks and recalibration are usually required at an independent flow calibration facility, sometimes necessitating complete process shut-down during their removal from the pipeline.

FLEXIM can help to confirm and verify flow rates of existing volume and mass flow meters. By use of our range of portable flow meters, individual measurement points can be monitored and insertion meters checked and verified. As our meters are calibrated according to traceable national standards, you can always be assured about accurate and reliable measurement data.

We also offer complete thermal energy measurement audits that can help you evaluate the performance of your heat exchangers or the proper operation of your cooling towers and chiller plants.

With our matched and paired transducers, integrated temperature compensation, advanced diagnostics and the patented transducer mounting fixture WaveInjector, which allows measurements at extremely cold and hot pipe walls (-190 °C up to +580 °C), FLEXIM's service engineers provide you with precise measurement data and fully detailed reports.

FLEXIM's range of flow meters are also available for rental by your plant engineers.



## Surveying for Safety

Flow assurance is not only critical in terms of process efficiency but especially crucial in regard to safety.

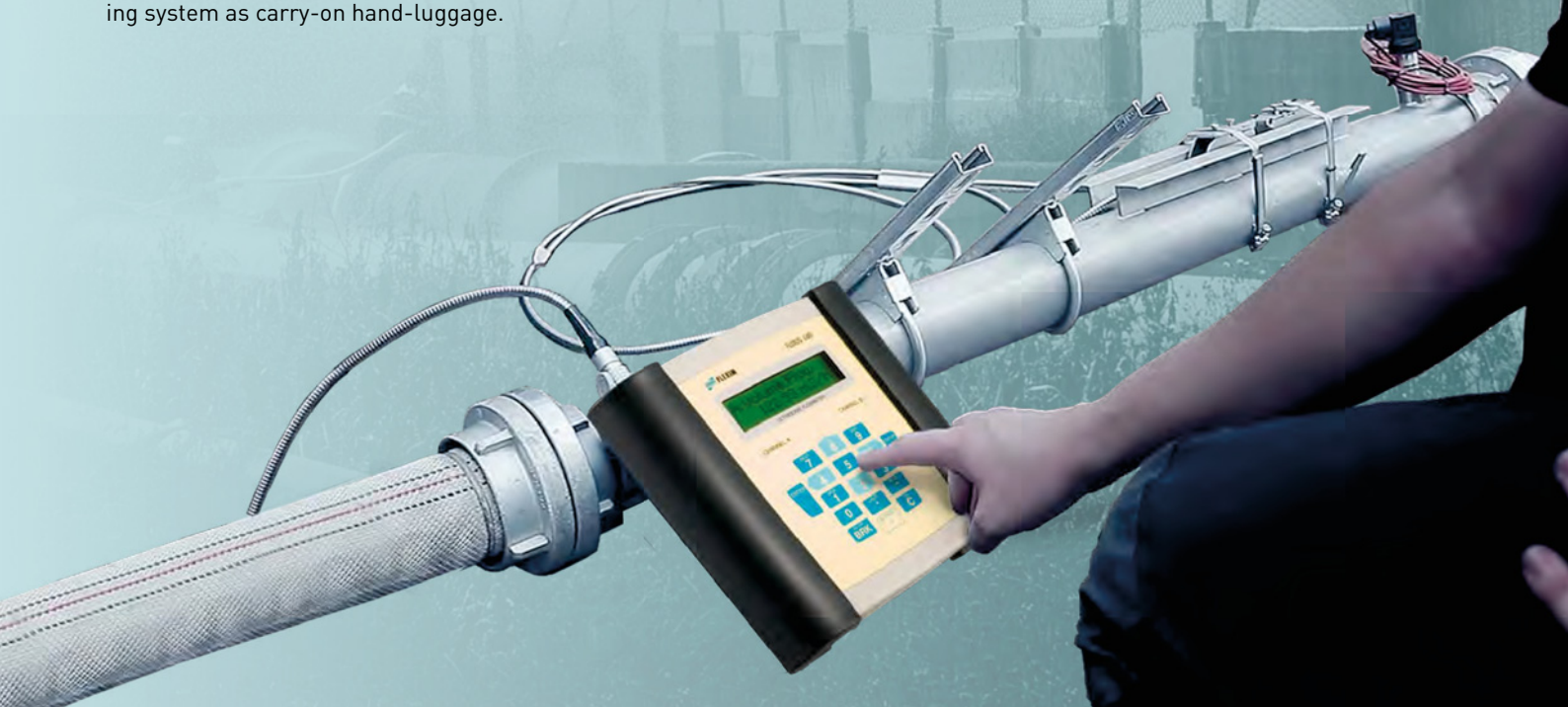
The Power Generation, Chemical, Oil & Gas and Offshore industries rely on fire pump deluge systems for vital personnel and process plant protection. It is crucial for plant operators to know the availability and performance of these pumps. Even if the systems are already equipped with metering devices, it is mandatory to monitor the correct functionality of the fire pumps via an independent external measurement system.

FLEXIM provides an easy and cost efficient metering solution using our range of hazardous area approved portable flow meters. Simply clamped onto the pipe wall and measurement ready in less than 5 minutes, there is no need to put the fire pump under investigation out of service.

Due to the fact that the FLUXUS® flow meters are highly zero point stable and drift free, they are also the ideal solution to detect potential leaks due to poor seals or valves.

Furthermore, with its built-in HybridTrek® Mode, FLUXUS® allows for the detection of cavitation effects, helping the operator to better understand the health status of the pumps.

Offshore meter checks and fire pump flow performance surveys are routine for our service engineers, who carry our highly portable measuring system as carry-on hand-luggage.





## Auditing creates cost efficiency

In the industrial sector, energy has long been a key competitive factor. Clamp-on ultrasonic flow and thermal energy measurements with FLUXUS® Energy meters also offers impressive and unique solutions which can be used to tap efficiency potentials non-invasively.

Energy use on an industrial scale often goes hand in hand with particularly challenging conditions for people and technology. This is where the reliability of FLUXUS® can be seen. Particularly sturdy versions of transducers and measuring transmitters mean that this measuring method, which is wear-free as a matter of principle, can be used even under extreme conditions.

Regardless of whether they are installed in potentially explosive areas as well as at extreme temperatures from -190 °C up to 580 °C, permanently submerged under water or on the smallest and largest pipes – the FLUXUS® ultrasonic metering systems have proven themselves in the most demanding applications.

### **FLEXIM's service engineers are ready and available to collect valuable measurement data and help you to carry out:**

- Efficiency monitoring on heat exchangers in line with preventative maintenance
- Comparison of the amount of energy produced and primary energy used in boilers and burners
- Permanent monitoring of thermal energy flows
- Quantification and use of residual heat
- High temperature flow measurements of heat transfer oils or molten salts (up to 580 °C)
- Performance monitoring of pumps
- Consumption analysis and leak detection of compressed air networks



# FLEXIM Measurement Services

We provide you with answers!

## How do you know?

- If your Pumps are correctly sized for demand and still operating at maximum rated flow?
- If your Heat Exchangers and Chillers are performing at peak efficiency?
- If your Custody Meters are under or over billing?
- If your Cooling Towers are performing properly?
- If your compressed air networks are balanced and leak free?
- If your Processes are operating at peak efficiency?
- If DCS / PLC algorithms are correct?
- If your Flow Meters are Drifting?

## What we do!

In today's energy efficient and environmentally conscious environment, 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 Power Generation, Oil & Gas, Chemical and Processing industries.

We confirm and verify flow rates of existing volume and mass flow meters at your industry specific application.

We also offer complete thermal energy measurements that can help you to evaluate the performance of your plant and processes.

We provide formal reports and in-depth data by employing our traceable calibrated portable meters along with sophisticated diagnostic software.

Our products are hazardous area approved (ATEX (IECEX) Zone 2 (1) and FM Class I, Div. 2) and provide for measurements in even the most demanding environments, e.g. Offshore Platforms, or Refineries at pipe temperatures up to 580 °C.

**Contact us to find out how we can assist you with your flow measurement needs.**



# FLEXIM

More than 20 years of experience in non-intrusive Flow Measurement and Process Analytical Technology



## Measurement constitutes knowledge

Our clamp-on flow meters stand out by their easy handling and intuitive user guidance. Even for untrained users, an accurate and stable measurement can easily be realized within a few minutes.

In the case of more challenging applications, such as gas flow measurement, or if the installation and set-up of our meters is part of your daily routine, FLEXIM provides individual product training carried out by our industry experienced service engineers. This can be uniquely customised to your requirements and delivered either at your site or in-house at FLEXIM's training facilities.

## Our customers rank first

FLEXIM considers itself not only a manufacturer of measuring instruments, but also a provider of technical and consulting services.

These services include on-site measurements, calibration services, training, instrument rentals and consulting services.

The company's focus and dedication is directed towards providing the highest quality equipment with the best support and service possible.

**FLEXIM GmbH**  
Berlin, Germany  
Phone: +49 30 93 66 76 60  
[info@flexim.com](mailto:info@flexim.com)  
[www.flexim.com](http://www.flexim.com)

**FLEXIM Instruments UK Ltd.**  
Northwich, United Kingdom  
Phone: +44 1606 781 420  
[sales@flexim.co.uk](mailto:sales@flexim.co.uk)  
[www.flexim.co.uk](http://www.flexim.co.uk)

**FLEXIM Instruments Benelux B.V.**  
JX Berkel en Rodenrijs, Netherlands  
Phone: +31 10 24 92 333  
[benelux@flexim.com](mailto:benelux@flexim.com)  
[www.flexim.com](http://www.flexim.com)

**FLEXIM Instruments Asia Pte Ltd.**  
Singapore, Singapore  
Phone: +65 67 94 53 25  
[salessg@flexim.com](mailto:salessg@flexim.com)  
[www.flexim.com](http://www.flexim.com)

**FLEXIM Instruments China**  
Shanghai, China  
Phone: +86 21 64 95 75 20  
[shanghai@flexim.com](mailto:shanghai@flexim.com)  
[www.flexim.cn](http://www.flexim.cn)

**FLEXIM Service and Support Center South America**  
Esco Argentina S.A.,  
Buenos Aires, Argentina  
Phone: +54 11 49 20 71 00  
[flexim@escoarg.com.ar](mailto:flexim@escoarg.com.ar)  
[www.escoarg.com.ar](http://www.escoarg.com.ar)

