



# KELTON

*Delivering Measurement Excellence*



## Corporate Brochure

The leading independent flow measurement consultancy  
and software developer for the oil and gas industry



## KELTON

Fully accredited, KELTON™ is the leading independent flow measurement consultancy and software developer for the oil and gas industry.

Whether clients require inspection, auditing or certification as part of System Compliance; uncertainty calculations for System Assurance; or general System Support – in KELTON they find a partner they can trust.

### Experience and expertise

Since 1991, KELTON has provided consultancy services for some of the biggest names in the oil and gas industry – including both international and national oil companies – to ensure their full flow measurement compliance with industry regulations.

Having completed over 2,500 audits and trained more than 5,000 flow measurement professionals, KELTON has earned a worldwide reputation for the provision of outstanding flow measurement consultancy, independent audit and training services.

Drawing upon their vast experience, KELTON has further developed a range of expert software solutions to support the design, operation and management of your flow measurement system.



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# Delivering measurement excellence

Understanding and controlling your flow measurement system uncertainty is of paramount importance. But with multiple systems, designs and configurations used to measure oil and gas – each with varying impacts on measurement uncertainty – and different parameters and process conditions, ensuring accuracy is difficult.

KELTON's specialist consultancy services and software applications give you the support and certainty you need in your flow measurement system performance at every stage of your operation.

## Consultancy Services

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KELTON's leading consultancy services deliver assured performance and certified compliance from the start, with proven calculation models to assess and validate system certainty.

## KELTON MeterManager

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Be certain about your uncertainty: Five fully auditable applications in a single user interface to ensure your flow measurement systems are always under control.

## Desktop Calculation Software

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Combining over 25 years of industry experience and flow measurement expertise into two easy-to-use solutions, giving you the confidence you need for all your flow measurement and uncertainty calculations.

# Consultancy Services

## System Compliance

Whether at a design, integration, commissioning or operational stage, KELTON's Inspection and Audit Services give you the confidence you need in your flow measurement system, ensuring ongoing performance and compliance.

As a United Kingdom Accreditation Service (UKAS) accredited inspection body, KELTON will fully assess your

measurement system and can issue a measurement compliance certificate upon successful audit completion.

This proves to all stakeholders that you have selected appropriate equipment, it is operated and maintained sufficiently to provide the best uncertainty of hydrocarbon measurement, and it conforms to the relevant standards, guidelines and commercial agreements.

## System Assurance

KELTON's System Assurance services give you certainty in your uncertainty assessment. Providing uncertainty models for flow measurement, allocation and transportation systems, KELTON will assess your system's uncertainty to ensure it meets the required standards.

If there is a discrepancy between the stated and actual uncertainty, KELTON



can advise on the right solution to meet your operational and commercial objectives whilst remaining compliant with all relevant contracts and regulations.

Furthermore, KELTON's consultancy experts will model the impact of changing equipment conditions and other parameters on system uncertainty to support effective decision-making.

### **System Support**

KELTON has a wealth of operational experience gained in the fields of engineering, third-party audit, supervision, project management, field operations, training, measurement reporting and system design, and the design of fiscal, custody transfer and allocation systems. Combined with an intimate knowledge of operational best practice and avoiding/resolving common

pitfalls, KELTON is your trusted partner for ongoing system support services.

You can also learn from KELTON's extensive experience and expertise: From standard flow measurement training to bespoke courses tailored to your requirements, KELTON's training courses are beneficial to budding and experienced metering, instrument and process engineers alike.





# KELTON MeterManager™

The fully integrated software suite to manage all your flow measurement activities

## System uncertainty

Accurate assessment of system uncertainty is an essential part of any flow measurement operation; both for contractual and regulatory purposes, and for your bottom line.

But measuring uncertainty is difficult – especially across multiple transfer systems and with multiple partners.

Theft, leakage and poorly maintained instrumentation can all lead to an increase in measurement uncertainty and will impact your financial return.

## A single solution

Developed in-house by our leading flow measurement consultants, KELTON MeterManager is the single software

solution to manage, assess and prove the performance of all your flow measurement systems.

Deployed locally to support a single measurement system or accessed remotely through your network or the cloud to manage multiple systems and multiple sites, KELTON MeterManager simplifies the management of your measurement system.

Collating information from multiple sources, including supervisory control systems, flow computers and SQL database servers, KELTON MeterManager combines five fully auditable applications into a single user interface.

This ensures your flow measurement systems are always under control.





**Dynamic uncertainty**  
updates all uncertainty  
calculations to match  
system process conditions



**Instrument management**  
enables centralised  
control of all instrument  
validation activities



**Document management**  
provides central storage  
for all system  
related documentation

# XMM KELTON METER MANAGER



**Integrated electronic logbook**  
records the history of all  
events relating to your  
measurement system



**Meter performance monitoring**  
manages proving activities  
and validates each prove with  
robust statistical techniques

**Be certain  
about your  
uncertainty.**

# FLOCALC™

The most comprehensive set of calculations available to flow measurement engineers

## Cutting through the complexity

Designed by measurement engineers for measurement engineers, FLOCALC helps you to break through the complexity of flow measurement calculations.

Containing an extensive calculation library, FLOCALC supports all your calculation needs – offering a complete calculation suite within an intuitive user interface. This includes calculations to:

- assess the value and quantity of hydrocarbons
- validate flow computer calculations
- calculate mismilements
- support system design
- convert quantities between different process conditions
- determine the energy value required for fiscal transactions

## Delivering calculation confidence

Accessible through its common interface, FLOCALC allows the selection of calculation options, engineering units and measurement resolution for complete confidence in the calculation being validated. And to support prompt decision-making, all calculations can be saved and shared with relevant stakeholders across your network.

Available on a licenced basis, all calculations within FLOCALC are regularly checked for accuracy and updated to ensure continued compliance with the latest industry standards. With full and provable traceability between the required calculation and relevant industry standard, FLOCALC gives you the confidence you need for all your flow measurement calculations.





# UNCERTAINTYPLUS™

The desktop solution to remove the uncertainty from your uncertainty modelling

## **Simplifying uncertainty, demonstrating compliance**

Demonstrating the uncertainty of a measurement system is a contractual and regulatory requirement and should therefore be considered throughout the entire life of a flow measurement system.

However, there are multiple systems, designs and configurations which can be used to measure oil and gas; each with varying impacts on measurement uncertainty.

UNCERTAINTYPLUS removes the uncertainty from your uncertainty assessment by enabling designers, flow measurement engineers and operators to determine the estimated uncertainty of a flow measurement system for a given set of operating conditions. Furthermore, it will validate and prove the actual uncertainty performance aligned to the required standards.

## **Supporting decision-making certainty**

Simply understanding your uncertainty is often not enough to support effective decision-making. With high costs of calibration, the need for measurement system performance and the management of risk exposure all influencing decision-making, there is a requirement to pre-empt the impact of your actions through effective uncertainty modelling.

To enhance decision-making processes, UNCERTAINTYPLUS facilitates 'what-if' scenarios to model the impact of changing equipment conditions, process conditions or other parameters on your uncertainty. And with a 95% confidence level on all calculations, you can be certain in your uncertainty modelling.

UNCERTAINTYPLUS 

# Why KELTON?

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## **Assured performance**

Leading inspection and audit services to give you the assurance you need in your flow measurement system performance.

## **Certified compliance**

Independently certified proof that your system conforms to the relevant standards, guidelines and commercial agreements.

## **Complete control**

Combining five fully auditable applications in a single solution, KELTON MeterManager ensures your flow measurement systems are always under control.

## **Delivering calculation confidence**

Spearheading industry standards, FLOCALC breaks through the complexity of flow measurement calculations to provide the confidence you need.

## **Simplifying uncertainty**

UNCERTAINTYPLUS validates and proves the actual uncertainty performance aligned to the required standards.

## **Delivering peace of mind**

With an intimate knowledge of operational best practice, KELTON is your trusted partner for ongoing system support.

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## **Consultancy services from KELTON**

### System Compliance

- Inspection
- Audit
- Certification

### System Assurance

- Design uncertainty
- Modelling
- System uncertainty

### System Support

- Support partnerships
- Training
- Manuals/Procedures/Guidelines

# Benefit from the KELTON experience



## Specialist applications from KELTON



The fully integrated software suite to manage all your flow measurement activities



The most comprehensive set of calculations available to flow measurement engineers



The desktop solution to remove the uncertainty from your uncertainty modelling

## Contact Us

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## Microsoft Partner

Gold Application Development

