



# **KELTON**

*Delivering Measurement Excellence*

# **XMM** **KELTON** **METER** **MANAGER**

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

The background image shows an industrial setting with large pipes and two pressure gauges. A vertical thermometer is positioned between the gauges. The entire image is overlaid with a semi-transparent blue filter. The text is centered in the lower half of the image.

“Even the smallest change in measurement **uncertainty** can have a big impact on your **operational** and **financial** performance. **KELTON MeterManager** is our fully **integrated solution** to make sure you can always be certain about your uncertainty.”

- Iain Pirie, Managing Director



## 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

Since 1991, KELTON has provided consultancy services to 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.

### Expertise

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

Expertly designed by measurement engineers for measurement engineers, users can benefit from the most comprehensive set of calculations available. And with full traceability of all calculations to the latest industry standards, KELTON's applications support continued system performance and compliance.

# 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 accuracy 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 measurement 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.**

# Complete flow measurement system management

## Reduce risks of mismeasurement

Ensuring the accuracy of your flow measurement instrumentation is fundamental for correct reporting.

Many operators adopt a time-based approach to instrument calibration. However, this costly practice – in terms of both time and money – can prove unnecessary and leave you exposed.

If the instrument sent for calibration has no deviation in its performance between intervals, sending it to be

calibrated is ineffective and inefficient. But if the instrument sent for calibration displays drift or requires adjustment, different concerns arise: How long has the instrument been misreading? What are the financial implications? And what are the contractual or regulatory risks resulting from this period of mismeasurement?

## Ensure ongoing accuracy

With an in-built dynamic uncertainty application, KELTON MeterManager updates all uncertainty calculations to match system process conditions to give a true, 'in-operation' result. The feature enables uncertainty calculations to be run at a user-defined frequency, or automatically triggered based on an event or parameter value changing. This ensures you can always be certain about your uncertainty and can take any remedial action, including instrument calibration, at the point it is required.



### **Demonstrate compliance with agreements and regulations**

As with all regulated processes, the standardisation, organisation, protection and storage of your data is essential to prove compliance in the event of an audit or contractual dispute.

Developed to the latest international standards and with full traceability on all calculations, KELTON MeterManager manages and records all metering validation activities, for example, flow computation and integration checks.

### **Integrated electronic logging and document management**

Using an integrated electronic logbook, the full history of all events related to a measurement system is automatically recorded and stored for complete transparency. Further supporting information including instrument documentation, dispensations and measurement results can be stored in the document management application.

Including a central repository for all required information, data can be easily

accessed, sorted, filtered and retrieved from within KELTON MeterManager, and can be shared with relevant stakeholders across your internal network to support prompt decision making.



# Be certain about your uncertainty

## Reduce long-term operating costs

Understanding and controlling your uncertainty is of paramount financial importance. Even the smallest change in measurement uncertainty can have a considerable impact on your operational and financial performance.

An unmanaged change in your uncertainty could result in; a 'barrels per day' or process efficiency mismeasurement impacting your bottom line; a mismeasurement resulting in litigation costs from a contractual dispute or a regulatory fine; or reputational damage impacting future partnerships.

The costs of mismeasurement cannot be underestimated, but they can be proactively managed and prevented.

## Delivers peace of mind

Through the effective management of your flow measurement system, you can be certain that your operations are performing effectively and within the designed parameters.

Fully supported by standardised, secure and auditable documentation, your performance can be proven to show compliance at every step of the process. And if there is a deviation in performance, KELTON MeterManager will provide instant, relevant and actionable insight to support any remedial activities – helping to prevent costly system failure and mismeasurement.

With KELTON MeterManager, you are always certain about your uncertainty.





# Why KELTON MeterManager?

## **Single solution**

Combining five fully auditable applications in a single user interface to ensure your flow measurement systems are always under control.

## **Reduce risks of mismeasurement**

Ensuring the accuracy of your flow measurement instrumentation is fundamental to correct reporting and minimising your exposure to risk.

## **Ensure ongoing accuracy**

Automatically triggered uncertainty calculations based on an event or parameter value changing ensure you are always certain about your uncertainty.

## **Demonstrate compliance**

Secure, clearly defined and managed data supports both internal decision making and the ability to prove compliance in the event of an audit or contractual dispute.

## **Integrated logging and document management**

All required data can be easily accessed, sorted, filtered, retrieved and shared with stakeholders across your internal network for full transparency.

## **Reduce long-term operating costs**

Preventing and proactively managing changes in measurement uncertainty enhances your long-term operational and financial performance.

## **Experience and Expertise**

Incorporating unparalleled expertise and consultancy experience, KELTON MeterManager is designed by measurement engineers for measurement engineers.

## **Delivers peace of mind**

Through the effective management of your flow measurement system, you can be certain that your operations are performing effectively and within the designed parameters.

## Benefit from the KELTON experience



### Other specialist applications from KELTON

#### **FLOCALC™**

The most comprehensive set of calculations available to flow measurement engineers. Spearheading industry standards, the application breaks through the complexity and guarantees you the confidence you need for all calculations.

#### **UNCERTAINTYPLUS™**

Remove the gamble from your investment decisions and start uncertainty modelling today. Running your own bespoke scenarios, one thing has never been more certain: Proving your system's uncertainty has never been easier.



# KELTON

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