

Introduction

FM²P®.net is the KELTON® Fiscal Metering Management Package that provides operators with a cost-effective system that reduces expenditure over the life of the metering system and risk to business.

Features

- Instrument management
- Flow measurement calculations document management
- Meter proof validation
- Interactive training
- Integration with existing measurement computer systems
- Integrated electronic logbook with automatic logging
- Fully configurable

Benefits

- Single solutions for the management of measurement
- Reduces exposure to costly mis-measurement
- Demonstrates compliance with agreements and regulations

Objectives of FM²P®.net

- To ensure fiscal metering systems are under control from operation through to reporting
- Build a history to demonstrate compliance with is readily available
- Configured to match the clients' system so that the results of all activities are saved in a clearly structured database under the appropriate metering system, stream and instrument tag
- Provide a complete history of instrument movements and performance including test and calibration results, standards and tolerances used, proof history, and interventions all recorded along with personnel involved in each activity
- To be fully scalable

The above is achieved by the implementation of various software applications, the provision of adequate training for relevant personnel, the correct level of support, production data analysis, reporting systems, equipment and procedures.

KELTON® have implemented systems ranging from those managing multiple sites spread across various geographical locations with the data stored in a central database to a single system with all components installed on a self-contained laptop.

A powerful SQL database and a client/server configuration are used to securely store data and make it accessible throughout the clients' organisation.

About KELTON®

KELTON® is an independent and accredited company specialising in flow measurement consultancy, auditing, training and the provision of specialist software. Founded in 1991, the company employs more than 50 people with 30 consultants who have over 500 man years of experience in the management, operation and maintenance of flow measurement systems. KELTON® has an outstanding reputation in the industry. Services include:

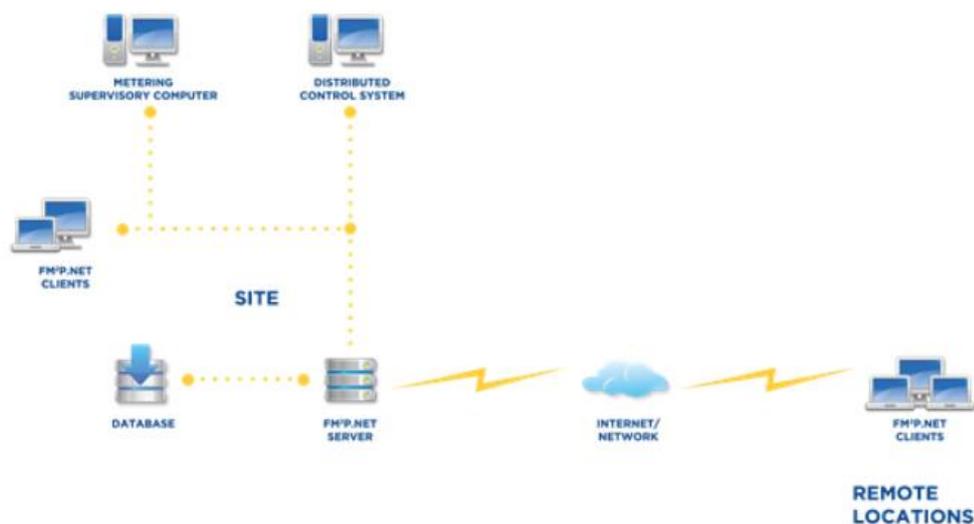
- Audit and Certification
- Uncertainty Calculations & Models
- Measurement Training
- Engineering Studies
- Metering System Documentation & Support
- Software Applications

Currently service is provided worldwide for; major oil & gas operating companies, gas transmission & distribution companies, LNG terminal operators and system integrators. Presently, service is offered from three strategic locations: UK, Qatar and Abu Dhabi.

If additional information is required on KELTON® flow consultancy services or software applications visit:

www.kelton.co.uk





FM²P®.net Applications

FLOCALC®.net is the KELTON® calculation package containing the most comprehensive set of calculations available to flow measurement engineers. This can be provided as part of an FM²P®.net system or as a stand-alone application. With FloXL®.net the full range of calculations can be used from within Microsoft Excel.

KIMS®.net, the KELTON® Instrument Management System manages and records all activities relating to the validation of a metering system, from flow computation and integration checks to the calibration of primary and secondary instrumentation. This flexible application can be configured to match calculation options, calibration procedures, resolution and tolerances.

K-TRAC®.net manages meter proving activities and is a powerful tool utilising robust statistical techniques to validate each proof. As the validation criteria may differ between metering stations, K-TRAC®.net can be configured to match the chosen method including control charts, performance curves and deviation from previous proofs. When used with K-LINK®.net the application can run automatically.

K-LOG®.net, the KELTON® electronic logbook records a full history of all events pertaining to a measurement system using operator defined templates to ensure consistency. Events can be logged manually or automatically taking data from FM²P®.net applications such as KIMS®.net or K-TRAC®.net. When used with K-LINK®.net, events such as streams going on-line can be recorded automatically by monitoring OPC tags and values can be read from metering computer system. K-LOG®.net differs from a paper logbook in that it can be filtered, sorted, searched and accessed across a network.

K-LINK®.net enables FM²P®.net applications to read data electronically from flow computer systems and interface with electronic calibration and test equipment. This will help automate processes, save time and improve accuracy. K-LINK®.net connects to flow computer systems using OPC, and if not available, values can be taken from MODBUS.

K-DOC®.net will help control the documentation required to manage a metering system. Dispensations and mis-measurements are tracked and all supporting documentation safely stored for easy retrieval.

KITS®.net is a powerful, interactive, PC-based training system which uses a series of modules to guide trainees through the complexities of measurement. The training material has been developed by KELTON® consultants and engineers with decades of experience in hydrocarbon measurement.

K-VIEW®.net is an application that enables the viewing of transmitter outputs graphically and in real-time. A particularly useful tool when calibrating differential pressure transmitters at elevated line pressure.