

Virtual Flow Computer On-line Flow Calculations in Windows®

The Virtual Flow Computer software environment is the next generation in flow computing.

Flow calculations

Like the conventional flow computer hardware, it can perform volume correction, flow totalisation, turbine linearization, and meter proving and more.

Multiple metering streams

The Virtual Flow Computer is by far the most economical option in case of multiple flow streams (3 or more). It is also a logical consequence of the Fieldbus trend in the process industry that will (partially) replace conventional hardwired I/O.

Multiple metering applications

The most obvious benefit of a Virtual Flow Computer exists for systems with a lot of flow measurement applications for which conventional flow computer hardware requires a significant investment.

Production allocation metering

The trend is that smaller fields are being exploited more and more. In most cases it is uneconomical to apply a flow computer for every flow line. The Virtual Flow Computer environment is an alternative, even more because it can be integrated with reservoir engineering and flash calculation software.

When Allocation Metering is required, KROHNE Oil & Gas is your partner.

Key Features

- Object Based Libraries
- Enhanced Graphical Editor
- OPC Server/Client for easy access
- Extended system security
- Windows embedded service
- On-line Help
- Full size flow totalisation
- Calculation cycle < 0.1s
- Interfacing to on-the-market hardware
- On-line debugging
- Data logging and trending
- Accurate and dependable
- Cost saving
- NMI approved function blocks
- Fiscal Parameter Tracking
- Alarm Handling
- Full Redundancy
- Unlimited number of flow measurements
- On-line flow calculations

Customer values:

- Reduced Total Cost of Ownership (TCO)
As the hardware part is limited, a substantial cost saving is achieved in terms of initial cost (CAPEX) and reduced maintenance and spare parts (OPEX)
- Easy to adapt and expand
The flexible Application Builder concept makes it easy to modify existing and add new metering applications. This will support any combination of multi-stream and multiple application environment
- Proven concept
The Application Builder is in-use since 1995 and under continuous improvement. Function blocks have been tested and certified by the NMI (Dutch Weights and Measures authority). Based on this continuous improvement, the concept has evolved to a tool that fulfills all your flow metering needs. There are numerous references where the KROHNE Virtual Flow Computer has successfully been applied all over the world.

