Honeywell

MeterSuite
Honeywell's Integrated Metering Solution

Integrated Metering Solution to Meet Industry Needs

Oil and gas producers and processors need to know accurately the amounts of product going into a pipeline, onto a truck, barge or ship. Many oil and gas producers, refiners and chemical processors have used disparate systems for such measurements.

Integrated with Honeywell's Experion® Process Knowledge System (PKS), MeterSuite™ offers the benefits of a centralized solution, such as monitoring, management and reporting processes to supply accurate data to the whole operation.

MeterSuite provides an integrated solution to supply accurate data to oil and gas and chemical operations.

The key to any successful project in the oil and gas industry is the utilization of engineers familiar with the industry and its stringent work practices. To complement its industry expertise, Honeywell has signed an exclusive agreement with the UK's leading metering solution provider, Swinton Technology. Swinton Technology has been an essential part of the MeterSuite development team and is responsible for delivering metering solutions in partnership with Honeywell, providing a combination of leading technology and application expertise.

Several changes in the industry are driving the need for a better metering solution. The oil and gas and downstream industries often need to meter streams that are relatively small. Accurate metering of smaller streams, such as for allocation or custody transfer purposes, has often been uneconomical until now.

Marginal oil fields and exchange of gas streams to allow more gas recovery, in particular in mature fields, require lower cost metering due to marginal fields and sub-sea tie-backs. Growing enterprises and independents in oil operations, as well as assets changing hands, all require metering of more streams.

The original equipment for existing metering systems is facing obsolescence. For many years, the accuracy requirements of metering systems have required dedicated flow computers interfacing their fiscal reports to DCS and SCADA systems.

The original technology assumptions that accuracy, safe measurement and reliability required a separate, closed system are no longer valid. Open systems technology can now provide added benefits in a modernized operation. A replacement for older equipment must therefore provide a path of development, support and improvement.

For new installations, the industry is looking for integrated solutions, instead of separate, dedicated systems. A solution that integrates the metering function into the control system architecture improves cost effectiveness, from installation, simple configuration and support over the long term.
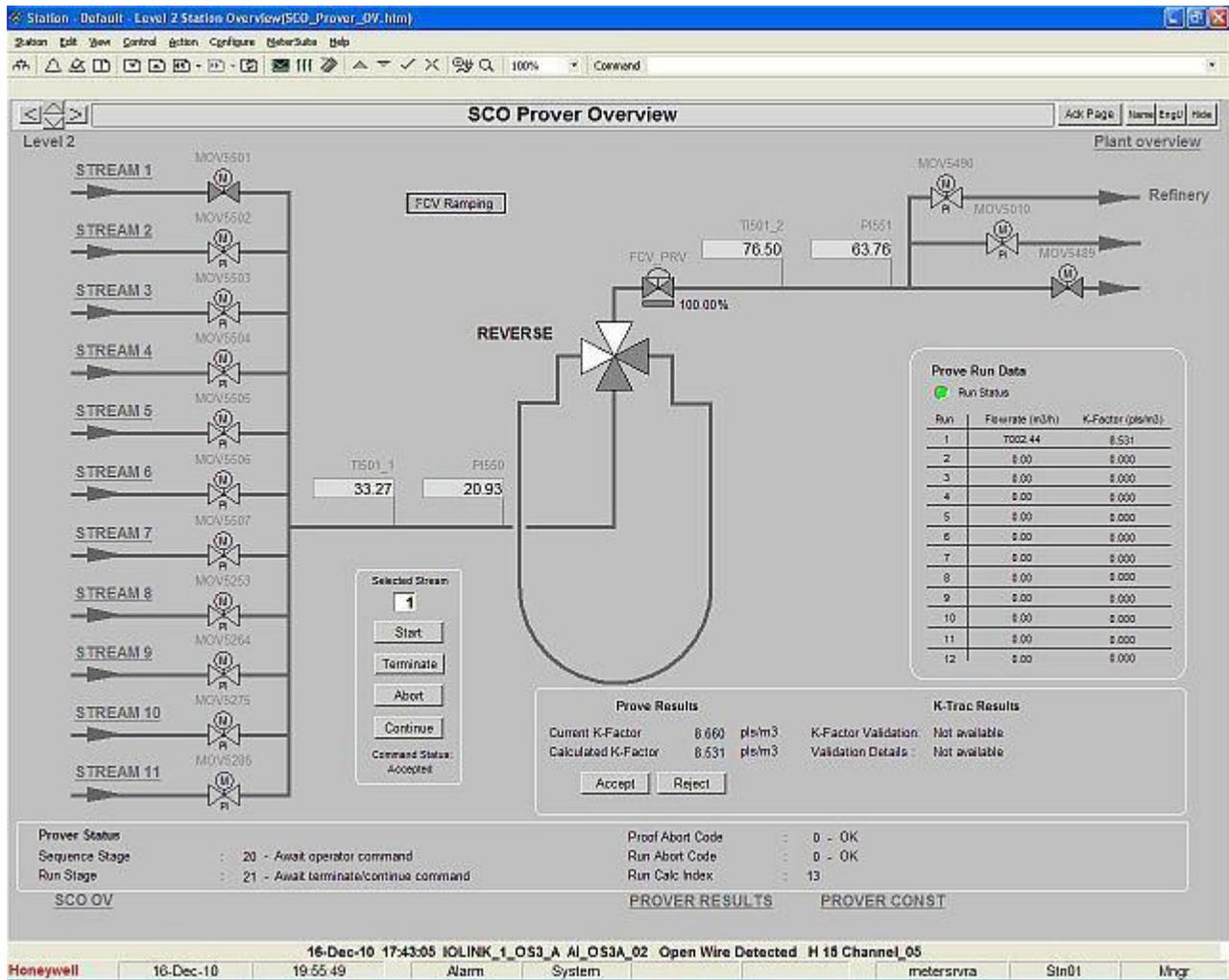
Honeywell's C300 Controller

MeterSuite components include:

- Experion server

- Experion user station

- Flow computing inside the C300 (or C200) controller

- Series A or C or PM I/O

- AGA, API and ISO standard calculations libraries

- Dual pulse module for pulse monitoring in accordance with ISO6551

- Meter proving and master meter applications

- Metering implementation expertise

Benefits

All capabilities of the Experion platform can be easily integrated to manage the metering function:

- Flexible reporting

- Web-based access

- Integration with wireless transmitters

- Integration with Fieldbus transmitters

- Single point of configuration

- Advanced trending

- Seamless connection to Honeywell systems

MeterSuite uses the C300 or C200 controller as the fiscal point. Additional flow computing calculations can easily be configured in the software, linking new instrument inputs to results.

- With fewer systems to maintain, less training is required. With more functions inside the control system there is no external system and custom interface to maintain. This eliminates a separate database, configuration and graphics building effort.

- A standard user interface encourages users to observe its operation more closely.

- Web access to metering information is available across the enterprise or between businesses from authorized users.

- The C300 controller supports a wide variety of I/O, including analog, remote, FOUNDATION Fieldbus and HART, allowing metering to follow the chosen approach to I/O.

- ISO, API and AGA calculations are loaded into the controller and can be upgraded, allowing the metering system to easily keep up with changing business and regulatory requirements.

- One system supplier integrates FOUNDATION Fieldbus, DCS and higher level business systems.

MeterSuite™ is a trademark and Experion® is a registered trademark of Honeywell International Inc.

More Information

For more information on Honeywell's Virtualization Solutions, visit www.honeywellprocess.com or contact your Honeywell account manager or field service leader.

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