PROFILE

IMPROVING WORK PRACTICES THROUGH IMPROVED TECHNOLOGY

EMERSON'S MICRO MOTION SMART METER VERIFICATION is quick and easy method to check flow meter performance.

Smart Meter Verification (SMV) is a unique, patented tool created by Micro Motion to help users troubleshoot, diagnose, and gain confidence that their coriolis flow meter is operating safely, within specification, and up to its potential. In less than 90 seconds the entire health of the meter can be verified without leaving the control room. SMV can also extend or eliminate meter calibrations, while still complying with regulatory standards. These capabilities result in significant plant expenditure reduction in the form of maintenance costs, frequent re-calibrations, meter repairs, and most importantly costs incurred due to process down time.

To stay competitive, businesses are required to become leaner than ever. Maintaining process runtime and limiting unnecessary maintenance trips to the field helps customers keep their competitive advantage. This technology was developed to verify that all the meter mechanical and electronic components are operating to their designed specifications. Additionally, it will alert a user if measurement settings have been changed since the last test was initiated. Unique to Micro Motion, this test can be run with a push of a button from the control room, quickly delivering results, while keeping the meter in-line and the process running. All these elements help reduce plant expenditures and results in a more lean and confident process.

SMV can be also be used to help comply with a plant's internal or external regulatory standards enabling better quality control practices. Plants often have internal ISO procedures that require instruments to be routinely checked and re-calibrated. Additionally, outside agencies mandate instrument calibrations on routine cycles. SMV helps instill confidence that the meter's performance has not changed and that third party checks or re-calibrations are not necessarily required. SMV provides many regulatory advantages while ensuring total meter health.

Coriolis flow meters are becoming increasingly common in precision flow measurement. Their extremely accurate gas and liquid mass flow measurement, along with precise liquid density, and high turndown capability makes Coriolis meters a good choice for precision flow. Additionally, Coriolis acceptance is being driven by the long term stability of their Flow Calibration Factor (FCF), which is a benefit of a design that has minimal moving or wearing parts. Coriolis meters are widely known for their stability and linearity over time, extending calibration intervals, reducing proving and lowering maintenance costs. Users have desired a method to check that the meter is still in its factory condition and eliminate the need to spend the time and money performing a re-calibration on a meter that's performance has not changed. SMV is a unique solution that checks the integrity of the flow meter, independent of the process, to ensure that there has not been any change to the measurement. This gives confidence that the process is running as designed and productivity remains at optimum levels. To learn more about how smart meter verification works and product details, please visit Micromotion.com.

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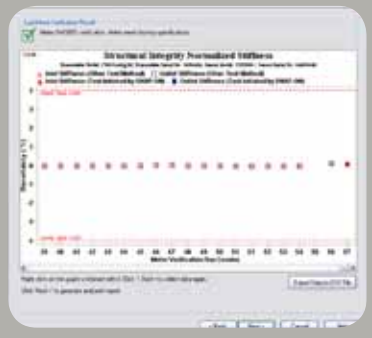
SMART METER VERIFICATION

EMERSON™ Process Management

Meter verification can be initiated on the local operator interface. Additionally, the pass or fail results will be also accessible.

The best record keeping capability for Smart Meter Verification is provided by using Prolink or the AMS Device Manager Meter Verification Snap-On.



The database provides a complete audit trail for traceability which includes all details of each test such as user, date, process conditions, meter ID and configuration.

With its immediate pass/fail verification alert, Smart Meter Verification is the only technology available for complete and instant Coriolis verification of sensor, drive and full electronics.