Protect Your Investment

One of the most important elements of a custody transfer or fiscal metering installation is proving the validity of the flow metering system. More oil and gas companies rely on Emerson’s Compact Provers than any other brand, emphasizing the fact that these robust proving devices can be depended upon for years of reliable performance.

Maintaining the prover in top working condition is the key to ensuring reliable, long term measurement accuracy. We can help you mitigate measurement uncertainty by providing expert Compact Prover inspection, refurbishment and upgrade packages that are customized to meet your specific needs.

Whether the requirement is an electrical upgrade, a full-scale rebuild to “like new condition” or something in between, Emerson provides the expertise, components and hands-on service to guarantee your Compact Prover is functioning at peak performance according to its design specifications.

Improve Reliability

Emerson’s Compact Prover Inspection and Refurbishment Service benefits you by:

- Ensuring and verifying measurement accuracy
- Minimizing the risk of financial loss due to flow measurement uncertainty
- Extending the useful life of in-service Compact Provers
- Gaining operating efficiencies / advantages with the latest technology components
- Improving ease of operation with a Prover Controller Upgrade

Factors affecting prover maintenance and reliability:

- **Continuity of operation**: A prover operating on a daily basis requires more attention than one on intermittent duty.
- **Rate of flow**: The practical life of any equipment is proportional to its speed of operation. A prover operating at, or close to, its maximum rating will likely have a shorter seal life than one operating at a reduced speed.
- **Lubricating value of the product**: A prover handling a light lubricating product will have a longer life than one measuring a dry product such as LPG.
- **Cleanliness of product**: Abrasive solid matter will accelerate the wear of the prover seals.
Keeping you at peak performance

Emerson is the world leader in custody transfer and fiscal flow measurement products, systems and services. We understand the importance of your flow metering measurement, particularly in an environment of volatile oil and gas prices. The financial risk due to measurement uncertainty can be significant. That’s why we are committed to helping reduce your metering equipment uncertainty anytime, anywhere.

With our global reach, a broad range of services and a network of certified service technicians, Emerson has the unique ability to support you for the life of your metering installations.

Access to Critical Services

A range of upgrade packages is available to help you improve your competitive advantage:

**Automatic Plenum Adjustment Panel**: Not having the correct plenum pressure can affect your meter factor. Enable the flow computer to automatically check the plenum before each prove with our Automatic Plenum Adjustment Panel Upgrade. This upgrade allows the flow computer to alarm when the nitrogen supply is low or when the plenum pressure is not correct. If the plenum pressure is too high, the flow computer will vent the pressure from the “vent solenoid” on the panel. If the pressure is too low, the flow computer will charge the pressure to its correct setting through the “charge solenoid” to mitigate issues.

**Optical Assembly Upgrade**: Mobile provers can be affected by travel, with rough roads leading to loosening of the pins between switches. Our Plug Style Optical Assembly simplifies matters by allowing you to join one plug rather than numerous pin connections between mating switches.

**Safety Barrier Upgrade**: Poor grounding can damage safety barriers. While replacing them with non-fusible barriers improves reliability, these barriers are also more expensive. Our fusible barriers provide a cost-effective option, ensuring you only have to replace the fuse — and not the complete barrier — each time a safety barrier fuse opens.

**Enhance Productivity**

The following inspection, upgrade and refurbishment packages are available for our Compact Proviers:

- **Mechanical Refurbishment I**: This package includes replacement of the seal, hydraulic hose and linear bearings as well as an optical assembly upgrade, a seal leak check, a hydrotest, a water draw calibration and certification, and a functional test.

- **Mechanical Refurbishment II**: This package includes all offerings in Mechanical Refurbishment I plus sandblasting and repainting.

- **Electrical Interface Upgrade**: An installation kit to replace the original safety barriers with fused barriers in an explosion-proof enclosure (certified to Class I, Div 1, Group D and EEx de ia m IIB T3).

- **Automatic Plenum Adjustment Panel Upgrade**
- **Optical Assembly Upgrade**
- **Prover Flow Computer Upgrade**

Get Started Today

With Emerson’s Flow Lifecycle Services, you have access to a network of highly trained, certified technicians who can provide you with service and support in more than 80 countries worldwide. For a customized quotation, please contact your nearest Emerson Flow Sales and Service office.