



## 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 Daniel® Compact Provers are used for meter proving than any other brand, emphasizing the fact that these robust devices can be depended upon for years of reliable performance.

Since meter proving is critical to ensuring measurement accuracy, it is essential that the prover is kept in top working condition. Daniel can help you mitigate measurement uncertainty by providing expert Compact Prover inspection, refurbishment and upgrade packages 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, Daniel can provide the expertise, components and hands-on service to guarantee your Compact Prover is functioning at peak performance according to its design specifications.



## Improve reliability

Daniel'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.

## 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. The Automatic Plenum Adjustment Panel Upgrade will allow the plenum to be checked automatically by the flow computer before each prove. The flow computer has alarms that will prevent the proving if the plenum pressure is not correct and also alarms if your nitrogen supply is low. If the plenum pressure is too high, the flow computer will vent the pressure from the “vent solenoid” on the panel and if the pressure is too low, the flow computer will charge the pressure to its correct setting through the “charge solenoid”.

**Optical Assembly Upgrade:** Mobile provers can be affected by traveling on rough roads, leading to loosening of the pins between switches. With Daniel's new Plug Style Optical Assembly, you only have to join one plug rather than numerous pin connections between mating switches.

**Safety Barrier Upgrade:** Poor grounding can damage safety barriers, and replacing them with non-fusible barriers is very costly. Daniel offers fusible barriers so each time a safety barrier fuse opens, you only have to replace the fuse and not the complete barrier.

### Keeping you at peak performance

*Daniel is the world leader in custody transfer and fiscal flow measurement products, systems and services. We understand the importance of your flow metering measurement, and in an environment of volatile oil and gas prices, the financial risk due to measurement uncertainty is greater than ever before. That's why Daniel is committed to helping reduce your metering equipment uncertainty anytime and anywhere.*

*Our global reach, broad range of services and certified service specialists supported by over 75 years of oil and gas industry experience enable Daniel to support you for the life of your metering installations – and that's a certainty.*

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## Enhance productivity

The following inspection, upgrade and refurbishment packages are available for Daniel® Compact Provers.

- **Mechanical Refurbishment I:** includes seal, hydraulic hose and linear bearings replacement, optical assembly upgrade, seal leak check, hydrotest, water draw calibration and certification, and functional test
- **Mechanical Refurbishment II:** same as Mechanical Refurbishment I plus sandblast and repaint
- **Electrical Interface Upgrade:** installation kit to replace original safety barriers with fused barriers in an explosion proof enclosure (Class 1, 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

Daniel's highly trained certified technicians are located worldwide, providing you with service and support in more than 80 countries.

For a quotation customized to meet your particular service needs, please contact your nearest Daniel Measurement and Control Sales and Service office as listed below, or submit a service request online at [www.daniel.com](http://www.daniel.com)

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