Why Calibrate Your Prover

Accurate measurement is vital during custody transfer, allocation or process control. Reduce measurement uncertainty and the subsequent impact on your operation’s bottom line with expert calibration services.

With current regulations demanding greater flow measurement accuracy, you need a calibration partner you can trust. At Emerson, we have over 80 years of custody transfer experience and will calibrate your prover with greater precision to ensure it complies with the latest measurement regulations.

Choosing Emerson as your prover calibration provider gives you access to an unrivalled network of expertise and skills. Our calibrated and traceable test equipment further ensures the quality of your prover calibration.

Purpose of Prover Calibration
- Custody transfer contractual requirements
- Check mechanical conditions of the prover
- Verify prover accuracy
- Fulfill API’s minimum recommended calibration of every 3 years

Water Draw Calibration

The water draw method is one of the preferred calibration techniques. It involves displacing or “drawing off” the volume of water between the prover detectors and putting it into field test measures which are calibrated and traceable to the National Institute of Standards and Technology (NIST).

Clear, deaerated water is selected as the test medium because of its stable characteristics, availability and the relatively low effect its viscosity and surface tension have on drain time during the field test measure.

Calibration Pays

Essential to maintaining measurement accuracy, provers must provide a reliable means to verify meter readings and establish and certify the meter factors. Our prover calibration service can help you control product loss and achieve substantial savings by providing:

- On-site calibration of small volume provers: line sizes DN200 to DN1000 (8-in to 40-in)
- Water draw certificate of calibrated volumes
- Prover seal leak check, repair and upgrade services
- Inspection of hardware and electrical components
- Quick replacement of genuine hardware parts
- Upgrade recommendations to improve operation and performance of the prover
**Calibration Capabilities**

In today’s competitive environment, calibration is critical to business success. Our prover calibration service will keep your flow instrument calibrations up-to-date and in compliance with measurement system regulations by using:

- NIST certified calibration equipment
- Factory trained technicians
- Technical support and training
- Turnkey repair and calibration service solutions
- Over 75 years of oil and gas custody transfer experience

**Calibration Credentials**

- Calibrations are traceable to the National Institute of Standards and Technology (NIST)
- Meets the requirements of API and ISO Standards

**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.

**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.

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