

# Gas measurement services



Terasen Measurement manages and services the measurement devices for 931,000 customers at Terasen Gas Inc. Working with a range of organizations across North America, we also provide gas and electric measurement services to other utilities, municipalities, manufacturers, co-ops, industrial and transmission companies.

With a focus on innovation, Terasen Measurement offers experience, economy of scale and access to leading-edge technology. Together these qualities combine to deliver a measurement service that will meet your needs and contribute to your bottom line.

Terasen Measurement has experience working with a range of gas metering technology including:

- meter repairs
- testing and calibrations
- verification/re-verification
- compliance sampling
- seal extensions
- Automated Meter Reading (AMR) retrofits
- non TC/TC conversions
- dry test/wet test meter accuracy testing and inspection
- asset/meter fleet management
- research and development services
- instrumentation and data services
- meter set design and fabrication
- badging, international customs, packaging and shipping

## Credentials

Terasen Measurement is accredited as a Meter Service Organization, ISO 9001:2000 certified, and our quality assurance programs are recognized by the federal government.

Terasen Measurement ensures that all service personnel are trained for their service specialty, and our staff is current with Measurement Canada and US state regulations for meter accuracy, testing frequencies and sampling programs.

**Diaphragm and Sonix meter calibration standard**  
Sonic Nozzle Prover, NIST traceable to within +/- 0.5%  
Maximum capacity 7,000 ACFH  
Minimum capacity 30 ACFH

10' Bell Prover, Measurement Canada Standard

10 Nobell Provers, Measurement Canada certified

2' Bell Prover, Measurement Canada Standard

**Rotary meter calibration standard**  
Rotary Transfer Prover, Measurement Canada Certified

## Turbine meter calibration capabilities

By keeping an accurate measure of the gas going in and out of your system, you can minimize your exposure to financial risk.

Both Measurement Canada and the American Gas Association recognize the need to calibrate turbine meters under expected operating conditions. At our patented facility, we are able to test flow meters over a wide range of operating conditions using carbon dioxide (CO<sub>2</sub>) matched to true operating conditions. We service American, Daniel, Sensus and Instromet turbine meters from 2" to 12", and our team also performs atmospheric and Reynolds Number High Pressure Testing.

The benefits of using the Terasen Measurement facility to test your turbine meters include:

- flexibility to change pressure and temperature in order to meet your company standards and requirements
- certified repair facility for Sensus and Instromet meters with experience in Elster and Daniel products
- completion of all shipping and customs documentation to reduce delays
- less than 10 day turnaround times can be arranged
- large volume of spare parts kept on hand to reduce waiting time
- all tests can be remotely witnessed

For more information and full details on our testing capabilities, see our *Flow Meter Testing* brochure.

## Instrumentation and data services

We offer a variety of services including:

- instrument and EVC calibration and repair
- pipe locator and gas detector testing and maintenance
- pulse hand-off service
- calibration of temperature indicators and pressure gauges
- resort billing support
- AMR technology

Efficient commodity delivery is important. For many utilities that means implementing a system which provides rate schedules based on time of use. That, in turn, means real-time automated monitors that can record how much gas your customer consumes and integrating this information with data analysis, rate design and billing processes.

On behalf of Terasen Gas, Terasen Measurement has developed a range of automated meter reading tools that are flexible, highly functional and most importantly, affordable. We also offer gas AMR retrofitting services.

## Asset/meter fleet management

Every year some of your meters will need to be replaced. But did you know that a statistical analysis of your in-service meter population can be performed? Such compliance sampling can help save you money by extending the install life of your meters. The statistical results can also help you determine the quality of your installed fleet and aid in future purchasing decisions. A well-managed fleet can help make annual budgeting easier.



Our services include:

- the initial analysis
- specifying and obtaining new replacement meters
- developing and implementing an ongoing meter recall program

## Meter set design

Our meter set design and fabrication service builds both standard and custom meter sets for residential, commercial and industrial developments.

Standard meter sets are available for a variety of delivery pressures and line pressure delivery loads. Custom meter sets are available based on specific customer requirements including installations for high inlet pressures, special delivery pressures, compact and specific locations. Our welders and gas fitters are registered and certified to meet industry standards.

## Measurement research and development

Terasen Measurement provides a range of testing and consulting services that can be tailored to fit your requirements. Our accredited facility and our skilled and experienced technologists and engineers can offer advice and a platform for new device testing or flow measurement problem resolution.

### **Terasen Measurement**

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**The quality you expect. The service you want.**

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