

# EA\_Gas Module for commercial meters

Available for new and in-service meters, the EA\_Gas Module for commercial diaphragm meters provides timely and detailed meter data for more accurate billing and improved customer service.

## Solutions for gas AMI

Built with an open architecture, EnergyAxis provides application integration across multiple utility systems, opening the path for seamless business information transactions. By installing the EA\_Gas Module under the register of new or in-service commercial diaphragm gas meters, the EnergyAxis local area network (EA\_LAN) can be expanded to cover commercial and industrial gas metering at a low incremental cost. The EA\_Gas Module requires little more than the installation of a communications module onto the gas meter, resulting in tremendous savings.

The EA\_Gas Module is compatible with all major brands of commercial diaphragm gas meters. The module mounts completely on the meter under the register with no exposed wiring.

## The data you need

In every meter reading transmission, gas modules send total consumption data as well as interval consumption data for each of the last several hours. The data are stored in the EA\_Gatekeeper as well

as the module's own nonvolatile memory, protecting the data against loss. All data are available for on-request reading.

Every reading also includes tilt and tamper indications to help identify potential theft of services. Additional monitoring capabilities can help identify irregularities such as meters that have the following:

- failed-to-report data after a specified time
- zero consumption
- out-of-bound (high/low) threshold flags

The gas module is battery-powered. Under normal operating conditions, battery life expectancy is in excess of 20 years. If it becomes necessary, the battery can be replaced in the field.

# Unifying solutions for the Smart Grid

## Field or factory installation

The EA\_Gas Module can be attached to new meters at the factory or retrofitted onto existing meters. System tools help to automate the installation, improving both accuracy and efficiency of retrofitted and newly-installed AMI systems.

All network elements of the EnergyAxis System (including gas modules) are uniquely identified by a factory programmed ID. The module ID links the gas meter data to a specific consumer account for more accurate billing and enhanced customer support.

## About EnergyAxis

Elster's EnergyAxis System is a proven, IP-based, two-way communications network that performs reliably in harsh, real-world environments. With verified applications and support for AMI, demand response, distribution automation, outage detection/restoration, revenue protection, and a host of other utility requirements, EnergyAxis provides unifying solutions for the Smart Grid.

## Solutions for electricity, water, and gas

EnergyAxis enables open access to AMI information for electric, water, and gas utilities. The modules report data using the EA\_LAN, which in turn repeats the information to the local area gatekeeper. The gatekeeper aggregates the electricity, water, and/or gas meter data and reports it through scheduled or on-request reads over the wide area network to Elster's EnergyAxis Management System (EA\_MS). EA\_MS then serves as the intelligent gateway between the meter population and the utility's various information processing systems and applications.

The capabilities of the EA\_LAN enable sophisticated billing and systems data collection as well as automated account management. EnergyAxis also provides alerts for different events (such as outages, tampering, and other system anomalies).

Through its open architecture, EnergyAxis is able to integrate with third party electric load control devices, demand-side management devices, in-home displays, and pre-payment services.

## EA\_Gas Module specifications

- Unlicensed frequency hopping spread spectrum RF technology
- Compliant with FCC Rules, Part 15 and Industry Canada RSS-210
- 902 MHz to 928 MHz communication range
- Temperature range of -40° C to +65 °C
- Relative humidity range of 5 % to 95 % (noncondensing)

## Meter compatibility

- Elster American Meter: AL 800-5000
- Sensus (Rockwell): 750-1000 and 2-5
- Itron (Actaris): 675-1000

## Other commercial meters

For the largest gas customers, Elster provides solutions for rotary and turbine meters as well. Both Elster American Meter and Dresser/Roots offer kits that allow direct attachment of the residential EA\_Gas Module to these meters. For other rotary and turbine meters, along with the volume correctors sometimes attached, Elster offers an EA\_Gas Module that attaches to these devices as well. In total, the EA\_Gas Module provides solutions for over 100 meter models from a wide range of suppliers insuring automation of nearly all the installed base of meters.

## About Elster Group

Elster, a global leader in smart metering and smart grid solutions has delivered over 3 million smart metering devices worldwide with systems located in North America, Europe, Central America, Australia, New Zealand and the Caribbean. Elster smart metering system solutions provide utilities with energy conservation capabilities via demand response programs, smart grid applications, and operational efficiencies resulting in significant value creation across the utility enterprise. Elster has over 7500 staff and operates globally in North America, South America, Europe, Africa, Middle East, and Asia.

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