

EA_Gas Module



Available for new and in-service meters, the EA_Gas Module 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. Installing EnergyAxis electricity meters builds the advanced metering infrastructure (AMI) that allows gas meters to be added at an incremental cost. Expanding the EnergyAxis network to cover gas metering requires little more than the installation of a communications module onto the gas meter. This can result in tremendous savings.

The EA_Gas Module is compatible with all major brands of gas meters. The module mounts directly on the meter, incorporating the mechanical index and index cover supplied as part of the meter. In addition, it can be easily programmed to work with a fixed factor, pressure-compensating index.

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 gatekeeper as well as the module's nonvolatile memory, protecting the data against loss. All the 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

To help prevent false flags, EnergyAxis provides seasonal treatment of accounts.

Solutions to meet multi-utility business needs from Elster

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.

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 endpoint components 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

EnergyAxis is an open standards-based AMI system that improves efficiency and productivity, increases revenue by minimizing uncollectables and theft, and improves customer service. EnergyAxis provides intelligent, self-healing, two-way communications to all electric metering endpoints for scheduled and on-request reporting of energy, TOU demand, load profile, status, outage counts, and voltage. For residential meters, an optional internal service control switch can remotely disconnect or reconnect electricity service.

The capabilities of the EnergyAxis mesh communications network 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).

Elster is committed to supporting utility initiatives in energy conservation. 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.

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 EnergyAxis mesh network, 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.

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)

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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