

EnergyAxis® water module



Available for new and in-service meters, the EnergyAxis water module provides timely and detailed meter data for more accurate billing and improved customer service.

Solutions for water 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 infrastructure that allows water AMI metering to be added at an incremental cost, which can result in tremendous savings. Expanding the EnergyAxis network to cover water metering requires little more than the installation of a communication module to the water meter.

The EnergyAxis water module is compatible with a wide variety of water meters, and it can connect to either digital (pulse) or encoded registers. In addition, the modules can be used in pit applications, remote mount applications, or direct mount to the meter itself.

Modules support the unit of measure as provided by the water meter register, and no on-site programming is required.

The data you need

Periodically, the water module reports the water usage reading, status, warning messages, and interval data. The water meter data is directed through the mesh network to the local collector, where the data is stored for retrieval by the EnergyAxis Metering Automation Server (MAS). The water module data has multiple paths through the EnergyAxis mesh network. This robust, mesh network communications performance gives the greatest assurance that meter readings will be received at the collector and available for retrieval by MAS and other utility systems connected through MAS.

In addition, all water meter data is available to the utility on-request, allowing the highest level of customer support and billing accuracy.

All endpoint components of the EnergyAxis System (including water modules) are uniquely identified by a factory programmed ID. The module ID links the meter data to a specific consumer account for more accurate



Solutions to meet multi-utility business needs from Elster

billing and enhanced customer support. A second unique identifier is implemented across EnergyAxis to assure the utility's meters are all on the same mesh network.

The water module is battery-powered. Under normal operating conditions, the module has an expected battery life of over 20 years.

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 metering endpoints. The capabilities of the EnergyAxis mesh communications network enable sophisticated billing collection, systems data collection, and 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 as well as a host of standard utility systems like CIS and meter data management systems.

Solutions for electricity, water, and gas

EnergyAxis enables open access to AMI information from electric, gas, and water utilities. The modules report data using the EnergyAxis mesh network, which in turn repeats the information to the local area EnergyAxis data collector. The collector aggregates the electricity, water, and/or gas meter data and reports it through scheduled or on-request reads over the wide area network to MAS. MAS then serves as the intelligent gateway between the meter population and the utility's various information processing systems and applications.

Water 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
- Humidity range of 0 % to 100 %

About Elster Group

Elster Group is the world's leading manufacturer and supplier of highly accurate, high quality, integrated metering and utilization solutions to the gas, electricity, and water industries. In addition, through its subsidiary Ipsen International, it is the leading global manufacturer of high-level thermo-chemical treatment equipment.

The group has over 8,500 staff and operations in 38 countries, focused in North and South America, Europe, and Asia. Elster's high quality products and systems reflect the wealth of knowledge and experience gained from over 170 years of dedication to measuring energy and scarce natural resources.

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