

EA_Gas Module 3.0

For commercial meters and AMI network management

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 Honeywell EA_Gas 3.0 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. Alternatively, the same module can be read with mobile data collectors providing seamless operations across fixed network (AMI) and mobile network (AMR) deployments. Moving from AMR to AMI has never been as simple: at most a change in operating mode is delivered by the mobile device instructing the gas module to support fixed network operations. Some configurations support both mobile and fixed networks natively and would not need any change. 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. In rare cases there may be gas meters that do not accept the integrated (under the index) modules: in these instances Honeywell provides automation using a “remote” gas module.

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 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.

FEATURES

For commercial diaphragm meters

Timely and detailed meter data for more accurate billing and improved customer service

As a network element within Honeywell’s EnergyAxis System, the EA_Gas module offers enhanced gas AMI and AMR functions

Honeywell takes gas automation to the next level, supporting encrypted two-way communications, OTA upgradeability, and automatic communication pathway optimization

Simple support for either AMR, AMI or both operating modes from the same modules. Transition between modes does not require a site visit.

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

Honeywell's EnergyAxis System is a proven, IPbased, 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 electricity, 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 gas meter data and reports it through scheduled or on-request reads over the wide area network to Honeywell's EnergyAxis Management System (EA_MS). EA_MS 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 electricity load control devices, demandside 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

Integral mounting options:

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

Other commercial meters

For the largest gas customers, Honeywell provides solutions for rotary and turbine meters as well. Both Honeywell 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, Honeywell offers an EA_Gas module that attaches to these devices. In total, the EA_Gas module provides solutions for over 100 meter models insuring automation of nearly all the installed base of meters.

Find Out More

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