

EA_Water Module 3.0

AMI network management

Solutions for advanced water AMI

Utilities and consumers have become increasingly aware of the need to conserve water and monitor its consumption. With the improved capabilities of the EA_Water 3.0 module, the utility can deploy modules faster, obtain more precise billing data, and offer improved customer service.

Honeywell supports all major water meter suppliers' encoded or digital registers.

Reduce inventory and streamlined installation

Available in remote and pit form factors, the EA_Water module is compatible with most all major brands of water meters. Utilities no longer have to plan inventory for each brand of water meter because the module's compatibility can be set at the time of installation. Also, account information is captured at the time of installation, allowing the installer to quickly deploy the module in the field without having to match up the correct unit to the address.

Remote mounting options allow units to be wall- or pipe-mounted with up to 100 feet (30 meters) of wire. Pit-mounted modules can be mounted through a hole in the pit lid or under an RF-friendly pit lid. Contact Honeywell for mounting options.

Improved network communications

The EA_Water module supports two-way communication within the EnergyAxis mesh local area network (EA_LAN). The module automatically finds the optimal path to the first hop toward the EA_Gatekeeper, giving the EA_Water module the same robust network coverage as other devices within the EA_LAN.

Using the time signals obtained from the EA_LAN, water meter intervals are synchronized with real time, giving the utility an accurate view of data simply not possible with devices that merely bubbleup at various, uncoordinated times.



Remote mounting options allow units to be wall- or pipe-mounted with up to 100 feet (30 meters) of wire.

Pit-mounted modules can be mounted through a hole in the pit lid or under an RF-friendly pit lid.



FEATURES

Pit mounted or remote mounted

As a network element within Honeywell's EnergyAxis[®] System, the EA_Water 3.0 offers enhanced network communications for advanced water AMI.

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

Secure by design

As with other network elements within the EnergyAxis System, the EA_Water 3.0 module has security built in and not patched on. Supporting AES-128 bit encryption, the EA_Water module protects its data and communications with enterprise strength technology.

To ensure secure upgrades, the EA_Water 3.0 uses advanced techniques when implementing over-the-air (OTA) upgrades of its firmware. Even if the utility does not implement all of the security features of the EA_LAN, the firmware image and communication link are secured by AES-128 bit encryption. When the OTA process is complete and verified, the EA_Water module will automatically resume operation as it was programmed to do prior to the upgrade.

About the EnergyAxis System

Over 130 EnergyAxis systems deployed worldwide, with over 8.2 million smart endpoints (more than 3/4 of a million water modules), are being used every day for both advanced metering infrastructure and distribution automation applications. EnergyAxis is a utilitygrade, Internet protocol (IP) based two-way communications system based on a dynamic, flexible, and scalable architecture.

The EnergyAxis System provides a layered end-to-end security architecture based on NIST, NEMA, and FIPS approved standards. EnergyAxis supports AES-128 bit encryption for any inter-network device communication session.

Water meter compatibility

Fully compatible with current digital and encoded registers from the following manufacturers:

- AMCO (Honeywell)
- Badger
- Hersey
- Metron Farnier
- Neptune
- Sensus

Find Out More

SmartEnergy@Honeywell.com
800-786-2215 (Honeywell Smart Energy sales information)
866-554-9007 (Product support)

Honeywell Smart Energy

208 S. Rogers Lane
Raleigh, NC 27610
www.HoneywellSmartEnergy.com

EA_Water 3.0 module specifications

- Unlicensed frequency hopping spread spectrum (FHSS) RF technology.
- 902 MHz to 928 MHz communication range.
- Compliant with FCC Rules, Part 15 and Industry Canada RSS-210.
- Temperature range of -40 °C to +65 °C.
- Remote housing meets IP67.
- Pit housing meets IP68.
- Multiple operation modes using the same module:
 - fixed network
 - hybrid (mobile/fixed)

