

## EA\_Mobile™

### A unique drive-by AMI solution for the EnergyAxis® System

Building upon Honeywell's highly successful EnergyAxis-enabled electricity, water and gas AMI endpoints, Honeywell now offers a mobile data collection system for reading these endpoints. Because these endpoints include full AMI capabilities, this mobile data collection system allows the utility complete flexibility in scheduling a full AMI fixed network deployment while protecting the more expensive sector of the automation process – the meters.

The batteries required for existing first generation AMR modules are reaching their end of life, requiring module replacement. The decision is whether to continue using existing one-way AMR modules for collecting meter data or to migrate to a full two-way AMI system. Honeywell's AMI devices are not AMR device clones designed to emulate AMI endpoints. They are fully functional AMI endpoints that accommodate mobile data collection by Honeywell's EA\_Mobile drive-by collector. By replacing aging AMR endpoints with AMI-capable endpoints, Honeywell provides a complete migration path to its fully functional two-way AMI EnergyAxis System.



*Expanding on Honeywell's proven EnergyAxis System, EA\_Mobile provides a flexible mechanism for utilities to transition from a one-way AMR system to a two-way AMI system.*

*Used with Honeywell's Route Manager, EA\_Mobile allows integration with existing headend systems, providing an efficient and seamless transition from older AMR systems to Honeywell's state-of-the-art AMI system.*

#### SPECIFICATIONS

##### EA\_Mobile

The EA\_Mobile along with several primary components is transported in a wheeled case. Those components are:

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|---------------------------------------|--|
| EA_Mobile interrogator unit           | GPS receiver                               |
| • Wake-up transmitter                 | Vehicle-mounted antennas                   |
| • EnergyAxis transceiver module       | AC and DC power supplies                   |
| • Power supply                        | Complies with Part 15 (Class B) of the FCC |
| • Real-time computer                  | Rules: FCC ID is G8JEAMOBILE1              |
| • Connectors, controls and indicators |  |

##### EA\_VID™

The EA\_VID is a ruggedized laptop computer providing a graphical user interface for the EA\_Mobile. Minimum hardware requirements:

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|--|--|
| 1.6 GHz, Intel Pentium processor           | 13.3-inch XGA Active Matrix TFT Color LCD touch screen |
| Windows XP Professional (SP3)              | AC and DC power supplies                               |
| 512 MB SDRAM                               |  |
| 1 Ethernet port (for EA_Mobile connection) |  |

## EA\_Mobile

EA\_Mobile represents the fourth generation of two-way mobile data collectors from Honeywell. The mobile data collector uses the same radio frequency communications to collect meter data that is used in the fixed network EnergyAxis System. Stated differently, the meter endpoints communicate the same regardless of whether they are in a fixed network or part of a mobile network. The system includes the following:

### Communications modules that process individual meter data including the following:

- Gas or Water: single channel, hourly, 35 days storage, ~25 MPH with 1 per 50 feet
- REXUniversal: single channel, hourly with stop, 45 days storage (1080 intervals)
- C&I: 2 channel, 15 minute with stop, 45 days storage
- Electric meter connect and disconnect
- Message-level encryption for data protection
- Leak alarm (water)
- Tamper alarm (Gas)

### Mobile collectors that communicate with the modules to collect the meter data

#### Handheld data collectors (EA\_InstallerPlus)

### Honeywell's Route Manager that processes and transfers the meter data to the utility's customer information system (CIS)

EA\_Mobile unit uses a global positioning system (GPS) to track its position and any meters within communication range. The vehicle interactive display (EA\_VID) tracks the completion of meter readings and alerts the operator to ensure all meters are read before leaving an area. With the real time onboard processor, the collector can read up to 30 meters per second allowing the reader to drive at residential street speed limits and has been demonstrated at highway speeds.

## Find Out More

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## Intuitive operator tools

The touch-sensitive EA\_VID uses the information from the EA\_Mobile collector to quickly and simply inform the operator of the progress being made in collecting the route data. The EA\_VID displays meter status (read, unread, etc.) as well as indicating how the reading route is progressing using visual and optional audible indicators. The operator can customize the information displayed to optimize the data collection process. The EA\_VID can display detailed information about each account using real-time reports using either a specific account or by a module serial number.

## Powerful management platform

EA\_Mobile uses Honeywell's Route Manager software for creating and managing accounts, routes, and devices. The EA\_Mobile collector is synchronized with Route Manager to upload routes for reading meters. After readings are complete, Route Manager downloads the files from the collector for exporting to billing, CIS, or other enterprise systems.