

Mueller SYSTEMS

WHERE INTELLIGENCE MEETS INFRASTRUCTURE™

The Smart Move for Advanced Automated Meter Reading (AMR)

Increased Meter Reading Efficiency
Through High Performance AMR.



Smart Move™

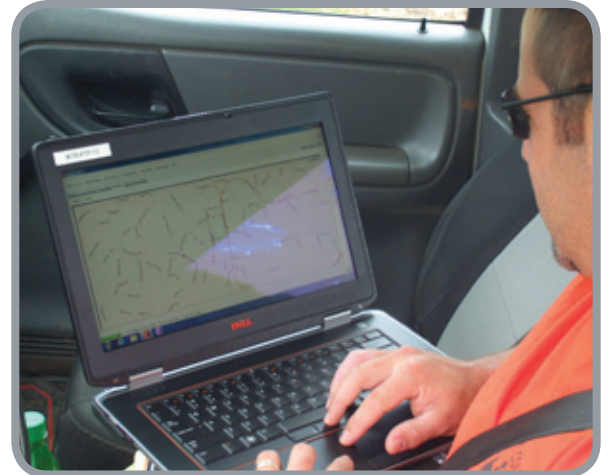
Hot Rod™ AMR System from Mueller Systems

Mueller Systems' high performance automated meter reading (AMR) system—**Hot Rod**—outpaces every other contender by providing utilities with an advanced mobile AMR system that stores consumption data for 170 days and enables them to increase their ability to capture drive-by meter readings by up to 400%.

The components of the **Hot Rod** AMR system, which include the **Hot Rod** Radio Transmitter Unit, **Street Machine™** Mobile Data Collector, and **EZ Reader™** Software, work together to transmit monthly consumption reads, along with leak and backflow alerts, while internally storing hourly consumption data for up to 170 days (six months) for retrieval.

Additionally, by enabling consumption profiling, the **Hot Rod** AMR system allows meter readers to provide graphical displays of consumer usage and alarms while they are in the field, which helps them to proactively approach customers about possible leaks or other service related issues.

As a result of such advanced functionality, utilities can leverage the **Hot Rod** system to reduce the amount of time it takes to manually collect meter reads, effectively manage water usage, and improve customer service. Plus, the ability to collect meter reads from a vehicle means improved employee safety.

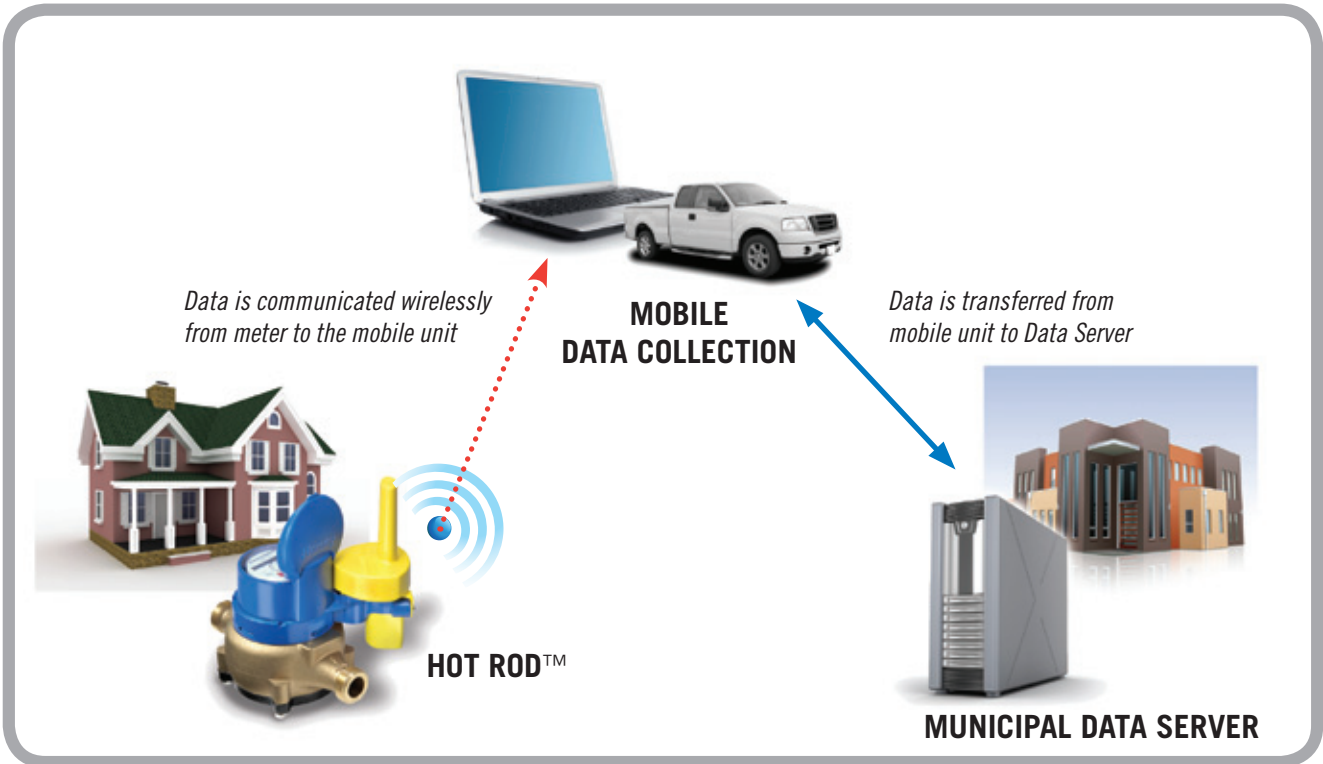


“It used to take us at least three weeks to manually collect meter readings. With the Hot Rod AMR system, it takes us 16 hours or less to collect monthly readings from each of our 3200 service connections—using only one meter reader. Mobile data collection has dramatically improved the accuracy of our readings, and it has reduced our labor costs by approximately \$40,000.”

Moody Barrick
Public Works Director
The City of Clayton, Georgia

“The system’s data logging capabilities are worth their weight in gold. We use the leak report everyday; in fact, our customer service representatives keep it with them at the window at all times, and would be lost without it.”

Steve Natoli
Water and Sewer Collection Supervisor
Anson County Water Department



HOT ROD™

Hot Rod's open architecture enables it to integrate with other brands of encoded meters, while providing a migration path from AMR to Mueller Systems' 2-way advanced metering infrastructure (AMI) system—the **Mi.Net™** Mueller Infrastructure Network for Utilities—as your needs and service area grows or changes.

Benefits:

- Improved customer service
- Improved water conservation
- Improved employee safety
- Increased operational efficiency
- Stores consumption data for 170 days
- Accurate meter reading collection
- Reduced meter reading times
- Leak, tamper, and reverse flow alarms
- Hourly, daily and/or monthly consumption data available to utilities and customers
- Simple migration to the **Mi.Net** Mueller Infrastructure Network for Utilities 2-way AMI system

Hot Rod™ AMR Technology

Hot Rod Radio Transmitter Unit

The Mueller Systems' **Hot Rod** Radio Transmitter Unit is a high performance module that provides the basis for high speed, high performance meter reading.

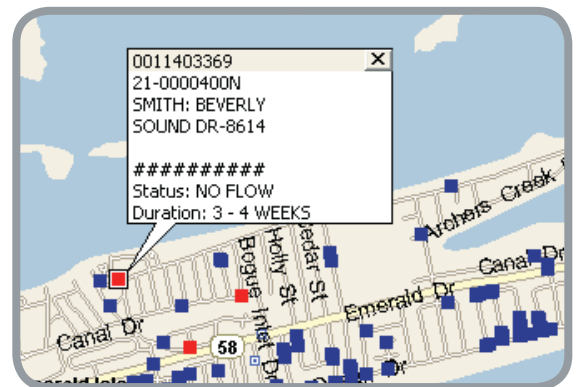
Every two seconds the **Hot Rod** module transmits encoded serial numbers, water meter readings, data logging alarms and meter status data via 902MHz to 928MHz radio frequency. **Hot Rod** is compatible with all current Hersey™ meters utilizing the Translator® Positional Encoder Register and other manufacturers' encoder registers outputting a similar protocol.

Benefits:

- Instant data logging alarms
- Improved meter reading efficiency with 2-second transmissions
- Stores up to 170 days of hourly consumption data
- Potential service issue alarms
- Quick and easy installation
- Compatible with other manufacturers' encoder registers

Instant Data Logging Alarms

Hot Rod modules transmit alarms that indicate potential service issues, such as leaks, tamper and reverse flow to meter readers as they travel along a route. This enables meter readers to take immediate action in the field—such as leaving a door hanger to inform the customer of a potential problem or downloading the account's historical data for further investigation.



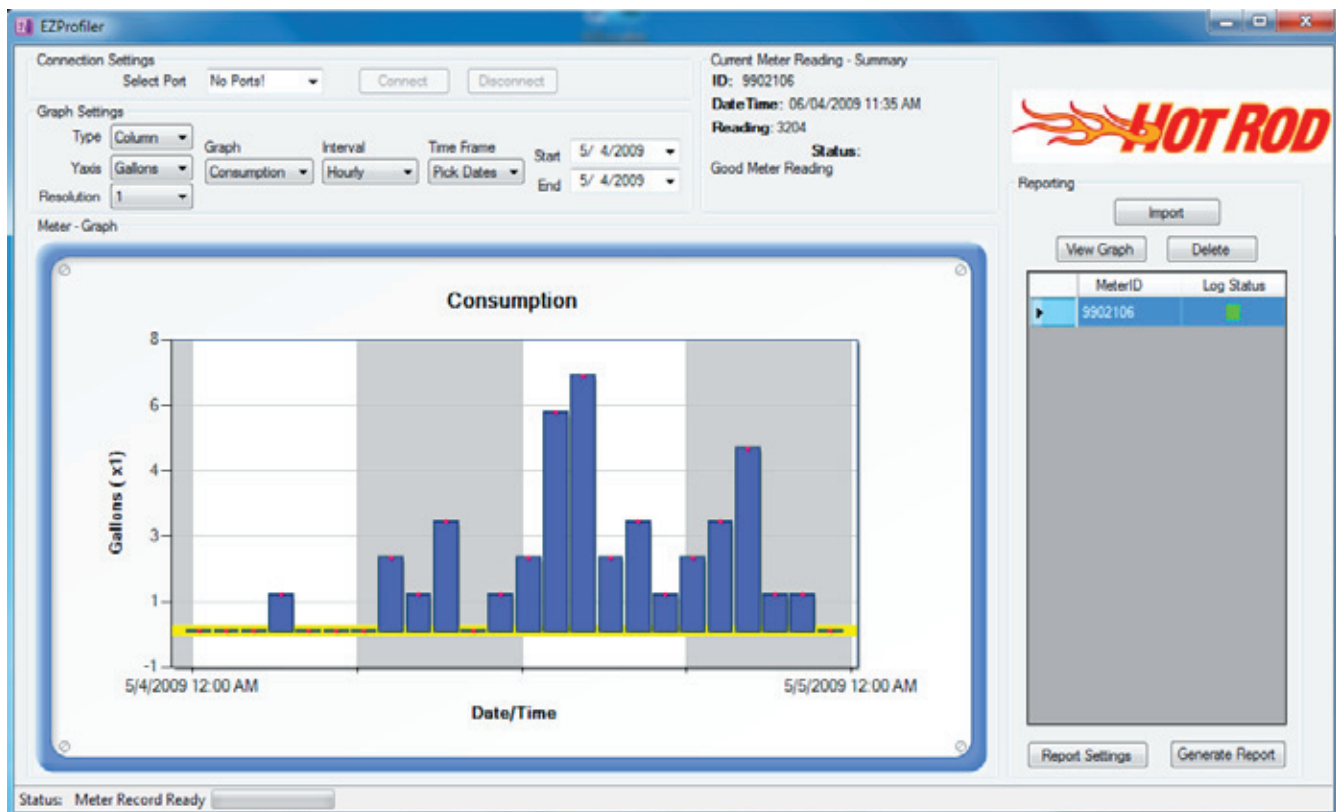
The instant data provided by **Hot Rod** can empower utilities with information needed to make proactive calls to customers about potential problems, such as leaking toilets or line breaks, before they lead to billing disputes. All of this can be done without leaving the office or scheduling additional field investigations that can be costly and increase a utility's carbon footprint.



Hot Rod can empower utilities with the information needed to make proactive calls to customers about potential problems, such as leaking toilets or line breaks, before they lead to billing disputes.

Hourly Consumption Data

Hot Rod transmitters can log and store up to 170 days of hourly consumption data, which can be downloaded by meter readers in the field and displayed in bar graphs that show monthly, daily or hourly consumption profiling data. Not only can consumption data aid in the investigation of potential service issues, it can be referenced when answering billing-related inquiries or disputes.



Quick and Easy Installation

All **Hot Rod** transmitters are pre-programmed and ready for installation in metal or plastic meter boxes using integral mounting brackets (no assembly required). Installation of **Hot Rod** transmitters does not require holes to be drilled through meter box lids, which enables them to be easily mounted beneath meter box lids, installed on PVC pipe or installed above ground.

Hot Rod AMR Data Management Tools

EZ Reader™ Software

The components of **EZ Reader** Software, which include **EZ Mobile™** and **EZ Profiler™**, work in tandem with the **Street Machine™** Mobile Data Collector to provide meter reading data that reliably interfaces with utilities' billing systems on any laptop that runs on Microsoft® XP, Vista® or Windows® 7. This provides easy access to information about routes, customers, meters and previous readings by remotely downloading data from the utility's host billing system (in standard ASCII format) and presenting it to meter readers through their PCs while they are in the field.

Street Machine™ Mobile Data Collector

The Street Machine Mobile Data Collector is a high performance, vehicle-based receiver that is part of the **Hot Rod** AMR system. Consisting of a radio receiver, data collection software, an antenna and cable connections, the Street Machine works with **EZ Mobile** meter reading software to enable field workers to easily collect readings that are transmitted by **Hot Rod** modules as they drive along a selected route at posted speed limits.

The **Street Machine's** components can be temporarily or permanently mounted in vehicles. The system receives power through the vehicle's AC adapter, and a magnetic antenna on the vehicle's roof receives all radio frequency transmissions from **Hot Rod** modules. At the end of the day, the collected data is uploaded to the utility's existing billing system with a few clicks of a mouse.

Benefits:

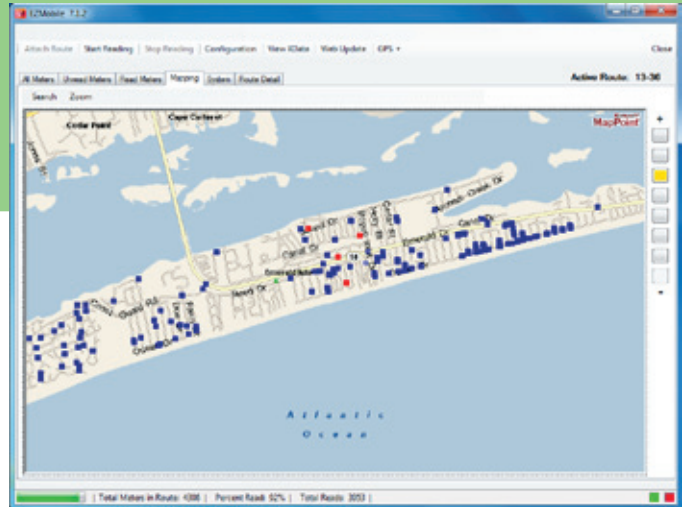
- Instant data logging alarms
- Improved meter reading efficiency with 2-second transmissions
- Compatible with other manufacturers' encoder units
- Potential service issue alarms
- Stores up to 170 days of hourly consumption data
- Quick and easy installation





EZ Mobile Software

EZ Mobile Software collects meter reads and instant data logging alarms along a selected route, while providing meter readers with various tabs including progress screens and route maps, which display collected readings and remaining meters that still need to have their data collected.

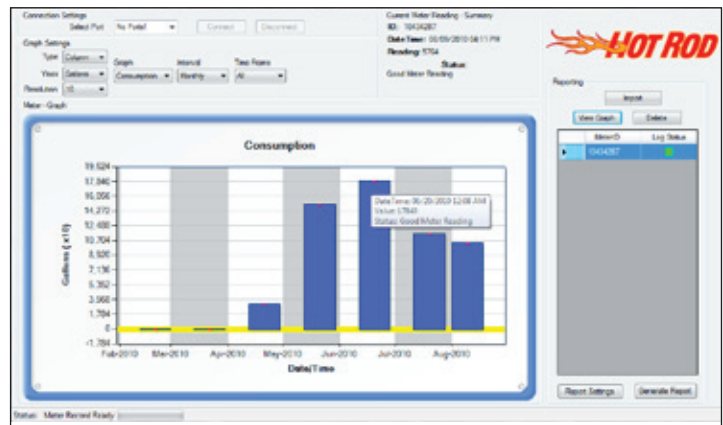


Meter locations are graphically represented on the route map by blue icons that disappear as soon as readings are collected. If a leak, reverse flow, no flow or tamper alarm is received, the corresponding icon will turn red, immediately prompting the meter reader to take action.

Information about individual meters, such as route sequence numbers, high/low reading parameters and messages about the account, are displayed as icons that can be selected by the meter reader. Additional functions allow users to quickly find a particular meter and record notes on a specific account that can be referenced in the future or relayed back to the billing department.

EZ Profiler Software

170 days worth of hourly consumption data stored by **Hot Rod** modules can be easily retrieved by **Street Machine** via **EZ Profiler** software. **EZ Profiler** enables detailed information to be viewed in the field or in the office to resolve customer billing disputes or to monitor and enforce water bans/restrictions.



Hourly consumption data can be viewed in various ways to help utility personnel better address customer concerns. Graphical displays provide historical data views in hourly, daily, weekly or monthly intervals. Simply rolling a cursor over the graph will display an individual hourly meter reading and users can view subsets of data as well.

Hourly consumption data can also be easily exported into report formats of the utility's choice (i.e. Excel, PDF). Report information includes the serial number of the meter's register, hourly readings, hourly usage and any Instant Data Logging alarms received from each meter. Historical profiles can be built for troublesome accounts to provide billing and customer service representatives the chronological data they need to resolve billing disputes.



WHERE INTELLIGENCE MEETS INFRASTRUCTURE™

About Mueller Systems.

Reliable Products & Services for Over 150 Years

Mueller Systems provides Smart Metering solutions to optimize the delivery and use of water and energy. Municipalities that supply water, electricity or gas — or any combination of the three services — need innovative ways to increase efficiencies, reduce costs, conserve energy and water, and improve customer service. The **Mi.Net** Mueller Infrastructure Network for Utilities from Mueller Systems meets that need.

For more than 150 years, the most practical, respected and intuitive products in the water industry have been built by the company now known as Mueller Systems.

Mueller Systems produces metrology for the most demanding applications including residential, commercial and fire-line meters, AMR / AMI systems and related products. We are committed to providing utilities with the infrastructure technology needed to optimize their operations and ensure the sustainability of our water. By building on our expertise in water management, we help electric and gas utilities better manage their operations and energy resources.

Mueller Systems is part of Mueller Water Products, Inc., a leading manufacturer and marketer of infrastructure and flow control products and services for more than 150 years. Mueller Water Products is continuously developing systems and components that make collecting information easier and more beneficial to utilities and their customers.

Find out more ways in which Mueller Systems can help you increase efficiencies, reduce costs, conserve energy and water, and improve customer service by calling us today at 800-323-8584 or visiting www.muellersystems.com.



Smart Move™

Mueller Systems is a division of Mueller Water Products, Inc. All trademarks referenced herein are the property of Mueller Water Products, Inc., or an affiliate, unless specified otherwise.

© 2012 Mueller Systems. Printed in the USA. 03/12