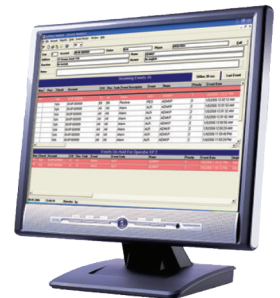


MEGA-NET: SIMPLE DESIGN, POWERFUL PERFORMANCE

FIXED NETWORK



KP's Mega-Net offers simplicity of design, zero running costs and complete independence to utilities, creating a powerful and cost effective AMR system.

Background

In 1987, KP introduced a revolutionary long-range (tens of miles) radio transmitter to the alarm industry. The KP radio is connected to alarm systems in residencies and businesses, and sends alarm signals over a radio frequency from the protected sites to a control center. Over the past 20 years KP has installed more than one million alarm transmitters and thousands of fixed networks throughout the world. Based on the expertise and experience

gained in two decades of work in the demanding alarm industry, KP developed a platform that allows remote collection of reads from water meters and various sensors.

The KP fixed network differs in many aspects from the other fixed networks in the market. One of the main goals of KP's design team was to provide a simple and cost effective solution for remote meter reading, while creating a powerful tool for the utility. When evaluating the Mega-Net system, you will not hear terms like "Spread Spectrum frequency hopping", "mesh network topology" and "future migration path". Everyone can understand how the Mega-Net system works, as there is no need to intentionally confuse you and hide behind complicated terms.

Mega-Net has three basic components:

Meter Transmission Unit (MTU) – long-range transmitter (typical range of at least 5 miles) that can read any digital or encoder type meter.

Repeater – professional "store-and-forward" repeater that collects readings from MTUs, checks signal levels, and forwards the readings and signal information both to the installer and to the main office.

Base Station – receives signals from the MTUs directly and/or from repeaters, records and displays data on the management software.

MEGA-NET: ADVANTAGES

Long-Range – Thanks to the very long range of the KP transmitters, only a few repeaters are required to cover large geographical areas. This eliminates the need for numerous Data Collectors and their related expenses.

Non-restricted meter selection – KP's MTU can read any type of Encoder or Digital register, giving the utility the freedom to choose the meter of its preference. This allows for a mixed system (meters from various manufacturers) and the flexibility to both retrofit existing meters as well as adding new meters in the future regardless of the meter brand.

FCC licensed operation – Operation on a secure FCC license assures interference-free frequency and reliable uninterrupted communication. Non-licensed systems often experience interference from numerous devices, such as, cell phones, garage door openers, etc.

No monthly fees – The Mega-Net system has zero running costs. No expensive tower leases or pole rental fees, no cell phone or internet charges, and, of course, no vehicle or insurance costs inherent to older technologies.

Improved customer support – Customer support personnel can now instantly pull up real-time data and e-mail any customer a graph showing the account usage history. This allows for easier and faster billing dispute resolution.

Simple design, powerful performance – Unlike other systems, the Mega-Net system is very simple and user friendly. A few hours of training and any operator can learn how to use the software and make use of its powerful features.

Security functions – KP's AMR network was designed to incorporate Security functions. Alarm transmitters can be positioned throughout the distribution system, and send real-time notifications from various sensors such as:

- Water level
- Door opening / closing
- Temperature
- Motion
- Humidity
- Smoke

An example of how the security features of the system can be used would be monitoring the doors at treatment plants or other water facilities – an instant signal will be wirelessly sent and appear on the operators screen within a few seconds, notifying the door has been opened, and a second signal when the door was closed.

Combining AMR and Security provides great added value at no added cost.

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