ARB® UTILITY MANAGEMENT SYSTEMS™

NEPTUNE TECHNOLOGY GROUP

R900® GPRS GATEWAY

The R900® GPRS Gateway (Gateway) is a targeted fixed network data collector that supports Neptune's ARB® Hybrid™ System and R900 migration. The Gateway allows your utility to automatically collect, store, and manage meter readings from high-value industrial, commercial and institutional (ICI) accounts and specialty applications.

The Gateway system is compatible with Neptune's proven ARB® N_SIGHT™ Hybrid Software and will also be compatible with ARB® N_SIGHT™ FixedBase in a future release. The Gateway units obtain readings from Neptune R900 meter interface units (MIUs). The Gateway then stores the meter reading data and transmits the information via a GPRS modem back to an FTP site linked to the software. The Gateway units can operate with either a 110V AC power supply or solar panel.

The ARB N_SIGHT Hybrid Software was designed for ease of use and to provide you with valuable data on your system. The readings from the Gateway are deposited into the ARB N_SIGHT Hybrid database, where they then can be transferred into the ARB® N_SIGHT™ Mobile Software according to the utility billing schedule and uploaded to the CIS/billing software.

Many utilities feel pressured to choose between the different meter reading technologies that are available. Which is best for your utility, a mobile or fixed base system? The answer could be both. An ARB Hybrid System allows a mobile RF meter reading system to be used for single-family residential subdivisions where one monthly read is required for billing purposes and targeted fixed network RF to be utilized for applications requiring more frequent reads (ICI). By combining systems, you can create the perfect solution for the unique challenges your utility faces.

Utilities want to know that their investment in the R900 will allow them to take advantage of new meter reading technologies and provide them the option of migrating to a fixed base system. Based on results from a propagation study, a current R900 customer can begin reading their system with the GPRS Gateway and gain even more efficiency improvements than with mobile data collection. The Gateway can take your system to fixed base with no change in your installed assets.

KEY FEATURES

- Supports ARB Hybrid data collection system
- Reliable GPRS communications
- Supports E-CoderPLUS advanced features
- Easily installed AC and solar-powered configurations
- LED diagnostics for improved installation
- Compatible with ARB N_SIGHT Hybrid Software (future compatibility with ARB N_SIGHT FixedBase)
- Supports AMR Permalog® leak detection
- R900 fixed base migration

KEY BENEFITS

- Reduces ICI meter reading costs
- Improves customer service capability
- Usage/consumption analysis
- Reduces water loss
- Maximizes revenue generation
- Improves cash flow
- Distribution network optimization
- Supports leak detection, tamper detection, and reverse flow indication of E-Coder®*

* when connected to a second generation R900 or later

HOST COMPUTER REQUIREMENTS

- The minimum hardware requirements for a computer running ARB N_SIGHT Hybrid include:
  - Windows 2000 Professional/Windows XP Professional
  - Intel 800 MHz processor or faster
  - 512 MB RAM
  - 1.5 GB of available hard drive space
  - Keyboard and mouse
  - CD-ROM drive
  - Video graphics adapter capable of 256 colors and 1024 X 768
  - Network adapter appropriate for the type of local-area, wide-area, wireless, or home network you wish to connect, and access to an appropriate network infrastructure; access to third-party networks may require additional charges (Client/Server configuration)

SERVER

- The minimum hardware requirements for a server running ARB N_SIGHT FixedBase include:
  - Windows Server 2000/Windows Server 2003
  - 2.33 GHz Intel Dual Core processor
  - 2 GB RAM
  - 12 GB of available hard drive space
  - Network adapter appropriate for the type of local-area, wide-area, wireless, or home network you wish to connect, and access to an appropriate network infrastructure; access to third-party networks may require additional charges
  - DVD-ROM drive
  - Video graphics adapter capable of 256 colors and 1024 X 768

*This specification is for a utility with up to 10,000 R900s in their system. If your utility has more than this, please contact Neptune for additional server specifications.

SPECIFICATIONS

- Installation options:
  - Rooftop
  - Pole
  - Wall
  - Water towers
- Power Options:
  - 110 V AC
  - Solar
- Battery backup:
  - 3 days backup in case of power loss (solar)
- Diagnostics:
  - LED diagnostics for ease of installation
- Backhaul options:
  - GPRS only
- Environmental:
  - NEMA 4 enclosure
  - Operating temperature: -22°F to +140° F (-30° C to +60° C)
  - Storage temperature: -40° F to +158° F (-40° C to +70° C)
  - 0-95% non-condensing humidity

Neptune engages in ongoing research and development to improve and enhance its products. Therefore, Neptune reserves the right to change product or system specifications without notice.

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