ARB® UTILITY MANAGEMENT SYSTEMS™

NEPTUNE
TECHNOLOGY GROUP

R900® BELT CLIP TRANSCEIVER

AUTOMATE MEASUREMENT TO ACTIVATE OPERATIONAL EFFICIENCY

Neptune's R900® System was designed to streamline and automate processes for your water utility, regardless of the meter reading method you choose – walk-by, mobile, or fixed network. As part of this system, our R900® Belt Clip Transceiver (R900 BCT) can help your personnel be more efficient in their jobs. The R900 BCT's two-way communications to the R900® MIU eliminate meter access issues and speed up retrieval of valuable data logging information – up to 96 days of historical hourly consumption data from an individual account. In addition, its exceptional radio frequency (RF) throughput reduces meter reading time, especially in high-density environments. Field personnel can even read R900s while performing maintenance or other tasks when taking advantage of the R900 BCT's unattended operations mode. These automated features ensure you collect accurate data that can be turned into meaningful information – to help improve accuracy, identify hidden causes of loss, and optimize the efficiency of your operations.

MOVE AHEAD WITH BACKWARD COMPATIBILITY AND FORWARD INNOVATION

The R900 BCT, as with the rest of Neptune's R900 System, works with past generations of equipment while remaining flexible to incorporate innovations as needed. The R900 BCT maintains support to read previous generations of R900 MIUs yet introduces powerful software-defined radio (SDR) technology to support the new advanced two-way features of the R900 System. Phase in new features and equipment at your own pace, confident in the knowledge that Neptune will support your future needs without leaving you with stranded assets.

PRESENT CONSUMPTION DATA IN THE FIELD FOR PROACTIVE CUSTOMER SERVICE

Simplified access to critical information means your utility can provide even more proactive customer service. Pairing the R900 BCT with a handheld device or a personal Android device running Neptune's NGO™ app, your personnel can maximize their efficiency in the field, with the flexibility to perform impromptu service calls and address customer service issues on-site without a separate truck roll. With the data literally in hand, they can share data logging graph information with homeowners. This on-the-spot, on-site presentment of how much water they used and when, helps head off customer complaints regarding high water bills, reduce delinquencies, and avoid write-offs.

KEY BENEFITS

- Increases meter reading efficiency
  - Increased RF throughput capabilities which reduce reading time in high-density R900 environments
  - Two-way communications to R900 MIU which reduces time required to retrieve data logging information
  - Unattended operations mode allows utility personnel to read R900s while performing other non-meter-reading-related job functions

- No stranded assets
  - Compatible with all generations of R900 MIUs
  - Probe compatibility with Advantage and Pocket ProReader
  - Connects via bluetooth to CE5320B, Trimble Nomad, and Trimble Ranger 3
  - Software-defined radio technology enables the R900 BCT to be updated for compatibility with future products

- Analyze data at the source with Android phone or tablet via NGO app
  - Test-read R900s in the field or before installation to obtain reading and E-Coder® flag events
  - Retrieve 96 days of hourly interval data logging information
  - View graph of data logging intervals in the field
  - Share data logging graph information with homeowner to address high bill complaints

SPECIFICATIONS

- Communication: Bluetooth 2.1 and USB

- Handheld Software Compatibility: N_SIGHT™ version 4.6 or later (N_SIGHT version 5.0 or later is required for new two-way features of the R900 System)

- Handheld Compatibility: Trimble Nomad 900B, Trimble Nomad 900LE, Trimble Ranger 3, and DAP CE5320B

MODE OVERVIEW

	Normal	Unattended Operations	USB Mass Storage
Bluetooth Pairing to Handheld	Required	No	No. Used only for firmware updates and transfer of data via USB from SD card to N_SIGHT™ R900® host PC
Trimble Nomad 900B and 900LE Compatible	Yes	No	
DAP CE5320B Compatible	Yes	No	
Android App Compatible	Yes*	No	
R900 Compatible	Yes	Yes	
Advantage / Pocket ProReader Compatible	Yes	No	
Data Logging Compatible	Yes	No	
SD Card Data Storage	Yes	Yes	

Advantage/Pocket ProReader and data logging not supported in Android NGO™ app.

Bluetooth, RF Status, Mode, and Battery LEDs

Battery Door

Power, Mode, and Enter Button

SD Card and USB Port Door

- Memory: 4GB SD card

- Indicators: Four LEDs identify Bluetooth communication, RF status, mode status, and battery status

- Power Supply
  - Rechargeable lithium ion battery pack -– 5000 mAh capacity
  - Field replaceable

- Dimensions
  - Height: 3.58" (9.1 cm)
  - Width: 1.66" (4.22 cm)
  - Length: 5.75" (14.6 cm)

- Weight: 1.1 lbs. (499g) including rechargeable battery

- Temperature Range
  - Operating: -4°F to +122°F (-20°C to +50°C)
  - Storage: -40°F to +185°F (-40°C to +85°C)

- Environmental: Tested to MIL-STD-810F and IP67

- Receiver Channels: 50

- Number of Simultaneous Channels: 8

- Approvals
  - FCC Class B
  - IC

- Accessories
  - Spare battery
  - Spare battery charger
  - Belt clip
  - SD card
  - 12V USB vehicle power cable

- Warranty
  - One-year comprehensive warranty
  - Hardware maintenance contracts available

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