



A PRODUCT SHEET OF NEPTUNE TECHNOLOGY GROUP

# Trimble Ranger 3XE Handheld Data Collector

## Streamline and Automate Water Measurement

When you work with the Neptune® R900® System, you'll streamline and automate processes to help your workforce be more efficient in their jobs, saving your utility time and money. The Trimble Ranger 3XE's intuitive design reduces training time, and our automated features ensure that the data you collect is accurate and easy to share with other departments. And if you need it, you can count on our support staff to resolve issues quickly and efficiently. Neptune's systems provide the foundation that you can build on, turning data into meaningful information to improve accuracy, identify hidden causes of loss, and streamline operations.

## Protect Assets While Adopting New Technologies

Neptune has designed the R900 System to ensure that individual components work easily with past generations of equipment, and will work just as seamlessly with future innovations as your utility's needs evolve. For instance, the Trimble Ranger 3XE maintains support to read R900® MIUs through its internal HR2650i receiver. The Ranger lets you choose manual keyed entry, probed, and walk-by RF data collection methods at any time. The Ranger can also be paired via Bluetooth with the R900® Belt Clip Transceiver (BCT). This enables features such as RF-activated data logging to extract 96 days' worth of hourly consumption data from the new enhanced R900 or E-CODER®)R900i™ for an individual account. You can phase in these and other new features and equipment at your own pace, confident that Neptune will support your future needs without leaving stranded assets.

## Address Customer Issues And Improve Service

With the Trimble Ranger 3XE and R900 BCT, access to the meter is not an issue, so your meter readers can quickly capture the information they need remotely. Your field personnel can now have AMI functionality in the palm of their hand, with immediate access to detailed interval data as well as flags for leaks, tamper, and reverse flow from E-CODER®-equipped meters. They can generate graphs of a customer's water consumption and show the customer on-screen exactly when excessive water usage occurred or when a probable continuous leak began. Seeing usage patterns and receiving alerts will help your utility proactively improve your customer service, heading off high bill complaints, reducing delinquent payments, and avoiding write-offs in the process.



## KEY BENEFITS

### Increases Efficiency

- Supports multiple data collection methods – manual keyed entry, probed, and mobile RF
- Integrated HR2650i receiver for easy transition to mobile RF
- Supports two-way communication to R900 when connected to R900 Belt Clip Transceiver (BCT) and Neptune software

### Protects your meter reading data

- SD card backup
- Meets MIL-STD-810G for impact, vibration, humidity, altitude, and extreme temperatures
- Meets IP67 for protection against dust and water intrusion

### Analyze data at the source

- View data logging graphs in the field to address high bill complaints
- Identify high/low audit status failures
- Receive leak, reverse flow, and days of no flow alerts from E-CODER-equipped meters

## Specifications

### Operating System

- Windows Mobile 6.5 Professional

### Processor

- TI AM3715 Sitara ARM Cortex-A8 processor at 800 MHz

### Memory

- 256 MB RAM

### Display

- 4.2 in (10.6 cm), 640 x 480 pixel, VGA TFT with LED backlighting

### Keyboard:

- QWERTY full keypad with number pad, directional buttons with 4 programmable buttons

### Power Supply

- Rechargeable lithium ion battery pack – 11.1V, 2500 mAh, 27.8 Wh
- Power management system
- Integrated charge status and low battery indicator
- Typical 10+ hour work day

### Communication

- Bluetooth 2.0 + EDR
- WiFi (802.11b/g)

### WWAN Radios

- HSDPA, Tri-band
- HSDPA/UMTS: 850/1900/2100 MHz, Quad-band
- GSM/GPRS/EDGE
- CDMA

### Audio

- Integrated speaker and microphone

### AMR RF Receiver

- HR2650i integrated receiver, Also compatible via Bluetooth with R900 BCT

### Dimensions

- Height: 1.9" (4.8 cm)
- Width: 5.2" (13.1 cm)
- Length: 10.5" (26.6 cm)
- Weight: 2.3 lbs. (1.04 kg) including rechargeable battery and stylus

### Temperature Range

- Operating: -22°F to +140°F (-30°C to +60°C)
- Storage: -40°F to +158°F (-40°C to +70°C)
- Humidity: 90% RH temp cycle -4°/+140°F (-20°C/+60°C)

### Environmental – Meets or Exceeds:

- Water: IEC-529, IP67
- Sand & Dust: IEC-529, IP67
- Drop: MIL-STD-810G, Method 516.6, Procedure IV
- Vibration: MIL-STD-810G, Method 514.6, Procedure I, II
- Operating and Storage Temperature: MIL-STD-810G, Method 501.5 – Procedure I, II, Method 502.5 – Procedure I, II, III

- Temperature Shock: MIL-STD-810G, Method 503.5, Procedure I
- Humidity: MIL-STD-810G, Method 507.5
- Altitude: MIL-STD-810G, Method 500.5, Procedure I, II, III

### Approvals

- FCC, CE, R&TTE, IC (Canada), C-tick, GCF compliant, RoHS compliant, Section 508 compliant, AT&T certified, WiFi Alliance certified, MIL-STD-810G, IP67, MIL-STD-461

### Accessories

- Ethernet communications and charging cradle
- Replacement lithium-ion battery
- Hand strap
- AC power adapter
- Anti-glare screen protector
- Stylus

### Warranty

- Two year comprehensive warranty
- Hardware and software maintenance contracts available

