A PRODUCT SHEET OF NEPTUNE TECHNOLOGY GROUP

Trimble Nomad Handheld Data Collector

The Trimble Nomad (Nomad), powered by Neptune's N_SIGHT® meter reading software, provides a comprehensive feature set that allows utilities to reliably manage and automate the meter reading process.

With the Neptune® R900® System, utilities can read their meters using a variety of data collection technologies, whether mobile or fixed network. The Nomad is just one component of Neptune's meter reading approach, allowing the meter reader to collect readings manually (keyed entry), probed, or via radio frequency (RF) with the R900® Belt Clip Transceiver (BCT). Regardless of the method, the Nomad offers the capability to reliably collect and store meter readings throughout the entire work day.

The Nomad is loaded with meter reading routes through an Ethernet communication/charging cradle using Neptune's meter reading software or via USB with Windows Mobile Device Center. Communication/charging cradles are connected directly to a PC, a server supporting multiple computers, or the utility's LAN. Any meter reading data on the handheld is backed up to the Nomad's SD card until the unload process is completed. To unload meter reading data, the Nomad is inserted into the cradle at the office. Data is downloaded to the meter reading software and prepared for transfer to the billing system. The Nomad remains in the cradle to recharge so it is ready for work the next day.

For RF capabilities, the Nomad is paired via Bluetooth with the R900 BCT. The R900 BCT is Neptune's walk-by meter reading transceiver and contains the latest in software defined radio (SDR) technology. Historically, receivers were integrated into the handheld; but with a separate belt clip device, the capabilities of the receiver are increased. In fact, the R900 BCT has a 50-channel receiver capable of processing eight readings simultaneously and 70 readings per second. The R900 BCT is fully compatible with Neptune's R900 MIUs as well as the Advantage series, Pocket ProReader probe devices, and all Nomad series. For more information please refer to the R900 BCT product sheet.

KEY BENEFITS

- AMR capable – fully compatible with the R900 Belt Clip Transceiver
- 8GB SDHC memory card backup of meter reading data
- Integrated GPS, 1D/2D barcode scanner, and 5MP camera*
- High-resolution, sunlight-readable VGA display with LED backlighting
- Designed for extreme durability – complies with IP68 and MIL-STD-810G
- Rechargable lithium ion battery – with up to 15 hours' battery life on a single charge

KEY FEATURES

- Reduces meter reading time and increases productivity when paired with R900 Belt Clip Transceiver
- Supports multiple data collection methods – manual keyed entry, probed, and mobile RF
- Supports full work day with a high-capacity battery
- Fully capable of operations in harsh environmental conditions
- Hardware support for multiple utility functions such as meter reading and work orders*

**Requires 1050LE model.*

The Nomad is available in two models – the 1050B (B) and the 1050LE (LE). The 1050B version is perfect for utilities that only want to utilize the handheld for meter reading purposes and pair it via Bluetooth with the R900 BCT. The 1050LE version is for those utilities who want additional hardware functionalities such as a third-party work order system or field geocoding. To support these functionalities, the 1050LE provides a camera, a GPS, and both 1D and 2D barcode scanning capabilities. Both versions come with a Texas Instruments 1 GHz processor to maximize field performance.

One of the most important requirements of a meter reading handheld is that the battery should last a full work day. The Nomad can do that and then some with its high-capacity, rechargeble 5200 mAh lithium-ion battery capable of performing for up to 15 hours even in cold weather conditions. During such a length of time in an outdoor environment, it's no surprise that the Nomad must be able to withstand harsh conditions. The Nomad meets rigorous MIL-STD-810G military standards for impact, vibration, humidity, altitude, and extreme temperatures. It also comes with an IP68 rating which means that the handheld is completely sealed against dust and can survive immersion in up to a meter of water for four hours.

To add even more value to the Nomad's high-value package, Neptune is offering the Nomad with a two (2) year comprehensive warranty.

Specifications

Operating System	Windows Mobile 6.5 Professional
Software Application	N_SIGHT (version 5.0 or later)
Processor	1 GHz Texas Instruments DM3730
Memory	512 MB DDR SDRAM
Data Storage	8 GB non-volatile flash
Display	Sunlight-readable 480 x 640 pixel (VGA) 16-bit color TFT with LED backlighting
Keyboard	Physical numeric and on-screen alpha-numeric (Qwerty) keypad accessible via touchscreen
Power Supply	Rechargeable lithium-ion battery pack – 5200 mAh capacity; Intelligent fast charge system (4-6 hours); Power management system; Integrated charge status and low battery indicator; Typical up to 15 hour work day
Communication	WiFi (802.11 b/g); Bluetooth 2.0 + EDR
Audio	Integrated speaker and microphone
AMR RF Receiver	Compatible via Bluetooth with R900 Belt Clip Transceiver
Dimensions	Height: 1.96" (5 cm); Width: 3.92" (10 cm); Length: 6.92" (17.6 cm)
Weight	1.3 lbs. (596g) including rechargeable battery
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 -22°/+144°F (-30°C/+60°C)
Environmental	Meets or Exceeds: Water: Survives IP-X8, immersion at 2 m (6.6 ft) for 1 hour IEC-60529, Survives IP-X6, water jet 12.5 mm dia @ 2.5-3 m (8-10 ft); Sand & Dust: Protected against dust, IEC-60529 IP-6X chamber under-pressure; Drop: Survives multiple drops of 1.2 m (4 ft), MIL-STD-810G, Method 516.6, Procedure IV, Transit Drop; Vibration: General minimum integrity and loose cargo tests, MIL-STD-810G, Method 514.6, Procedure I & II, Category 5; Operating Temperature: -30°C to +60°C (-22°F to +140°F), MIL-STD-810G, Method 502.5, Procedure I, II, III (Low Temp Operating -30°C); Method 501.5, Procedure I & II (High Temp Operating +60°C); Storage Temperature: -40°C to +70°C (-40°F to +158°F), MIL-STD-810G, Method 502.5, Procedure I, II, III (Low Temp Storage -40°C); Method 501.5, Procedure I & II (High Temp Storage +70°C); Temperature Shock: Cycles between -30°C and +60°C (-22°F and +144°F), MIL-STD-810G, Method 503.5, Procedure I-C; Humidity: 90% relative humidity with temperatures between -30°C and 60°C (-22°F and +144°F), MIL-STD-810G, Method 507.5, Procedure II; Altitude: 4,572 m (15,000 ft) at +23°C (+73°F) to 12.192 m (40.000 ft) at 130°C (+122°F), MIL-STD-810G, Method 500.5, Procedure I, II, & III
Approvals	FCC, CE, R&TTE, IC (Canada), A-tick, C-tick, GCF compliant, RoHS, compliant, Section 508 compliant, PTCRB, SAR, AT&T network certfied, Verizon, Wi-Fi Alliance certified, MIL-STD-810G, IP68
Accessories	Ethernet communications and charging cradle, spare battery charger, hand strap, AC power adapter, 12V vehicle charger, anti-glare screen protector, replacement lithium-ion battery, stylus
Warranty	Two-year comprehensive warranty Hardware and software maintenance contracts available

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