Badger Meter

ORION®

Trimble® Ranger 3

OVERVIEW

The Trimble® Ranger 3 is a full-featured, handheld data collection computer. It combines a Windows® mobile operating system, ergonomic keypad and military-grade durability, providing a full day of continuous meter reading. The Trimble Ranger 3 handheld is compatible with manual, touch and ORION® endpoint systems.

OPERATION

System: The Trimble Ranger 3 handheld uses the Windows Mobile 6.5 Professional operating system with the Badger Meter suite of handheld software.

Display: A large 4.2 inch, high resolution color, resistive touch screen with LED backlight supports reading in both sunlight and darkness.

Control: The Trimble Ranger 3 handheld features ergonomic navigation with versatile alpha and numeric keypads that are easy to use, even when wearing gloves. The user may also operate the handheld using the easy-to-navigate touch screen controls.

Power: A lithium ion rechargeable battery pack powers the Trimble Ranger 3 handheld, providing a full day of continuous usage under normal operating conditions.

The handheld can be charged using either the Office Docking Station or AC power supply that comes with the handheld. An optional DC power vehicle charger and spare battery are also available.

Performance: The Trimble Ranger 3 handheld was designed to meet MIL-STD-810G military standards for drops, vibration, humidity, altitude and extreme temperatures. With an IP67 rating, it is impervious to water, dust and the harsh conditions associated with meter reading.

ORION: An ORION equipped handheld can be used for reading and programming endpoints and as a troubleshooting tool in the field. To meet the needs of the utility, the Trimble Ranger 3 handheld can be ordered with an internal ORION Migratable (ME) FHSS mobile transceiver, an internal ORION Classic (CE) FHSS receiver, or without an ORION radio as a manual handheld.

STANDARD FEATURES

- Microsoft® Windows Mobile 6.5 Professional
- Custom keypad: 53 tactile keys with separate navigation, alpha and numeric keypads, and 8+1 directional pad
- Touch screen
- Full-day battery life under normal operating conditions
- Complete recharge in 4.0 hours (80% in 2 hours)
- Three tri-color notification LEDs
- Rugged polycarbonate case with Hytrel® overmold
- Integrated components:
    - Bluetooth® 2.0 + EDR
    - WiFi 802.11b/g
    - Speaker and microphone with 3.5 mm stereo headset/microphone port
    - GPS receiver
    - Electronic compass
    - 1D barcode laser scanner*
    - 5 MP auto-focus camera with LED flash and LED flashlight function*

* ORION handhelds only

ORI-DS-00855-EN-05 (May 2015)

Product Data Sheet

STANDARD SOFTWARE

Badger Meter Suite of Field Application Software

Meter Reading Software – Admin and Kiosk Modes
Programming/Field Troubleshooting Software

Windows Mobile 6.5 Professional Operating System including the following:

Microsoft Office Mobile

- Word® Mobile
- Excel® Mobile
- PowerPoint® Mobile
- Outlook® Mobile

Internet Explorer Mobile

- Contacts
- Tasks/Notes
- Calendar
- Calculator
- Adobe Acrobat® Reader
- Windows Media Player
- Microsoft Pictures and Videos
- Microsoft ActiveSync
- Online Help
- Trimble SatViewer (GPS interface application)

STANDARD ACCESSORIES

- Office docking station with power cord
- Rechargeable lithium-ion battery pack
- International AC power supply charging kit with four plug adapters
- Audio port dust cover
- I/O port dust cover
- Screen protectors
- Hand strap
- Touch screen stylus (2) with tether
- USB cable (mini)
- IR programming cable
- ORION antenna (ORION handhelds only)

PHYSICAL (without antenna)

Size .... 10.5" (26.6 cm) x 5.2" (13.1 cm) x 1.9" (4.8 cm)

Weight .... 2.3 lb (1.04 kg), including battery and stylus

ELECTRICAL

Processor .... Texas Instruments AM3715 Sitara® ARM® Cortex–A8 processor

Display ....4.2" landscape VGA 640 x 480 pixels sunlight readable TFT with LED backlight

Power .... Lithium-Ion rechargeable pack 2500 mAh (11.1 V)

I/O .... USB 2.0 full speed host and 2.0 high speed client; 15 V DC power port; 3.5 mm stereo and microphone audio port stereo; 9-pin RS-232 serial port

GPS Accuracy .... 2-4 m with SBAS correction

ENVIRONMENT

Operating Temperature .... -22…140° F (-30…60° C)

Storage Temperature .... -40…158° F (-40…70° C)

Humidity .... MIL-STD-810G, Method 507.5

Water .... IP67, sealed against accidental immersion (1 m for 30 minutes) IEC-529

Drop .... MIL-STD-810G, Method 516.6 Procedure IV 48" onto plywood over concrete 26 drops at room temperature (all faces, edges, corners, one drop each) 6 drops at 60° C, 6 drops at -30° C

Sand & Dust IP67, IEC-529

Vibration .... MIL-STD-810G, Method 514.6 Procedures I and II

Altitude .... MIL-STD-810G, Method 500.5 Procedures I, II, III, 15,000 ft at 73° F (23° C)

SPECIFICATIONS

Processor Speed .... Intel XScale, 800 MHz

Memory .... SDRAM ~256 MB Data storage (on-board flash) ~8 GB Secure digital (SD/SDHC) card slot

Wireless .... Integrated Bluetooth 2.0 + EDR and WiFi 802.11b/g, standard

Certifications .... FCC, IC (Canada), RoHS compliant WiFi Alliance certified MIL-STD-810G, IP67, MIL-STD 461

Making Water Visible®

www.badgermeter.com