

Water Quality Monitoring System



In-Situ RuggedReader®

Introducing the **NEW** RuggedReader® from In-Situ® Inc. Collect, store, analyze and transfer data using this ultra-rugged, multi-purpose, hand-held PC. When coupled with any of In-Situ's TROLL® Water Quality or Level instruments, the RuggedReader® delivers a reliable, easy-to-use data management system that will stand up to the harshest conditions. Improved smart battery, faster processing speed, a more flexible interface and the latest Microsoft® operating system make the new RuggedReader® a must have.

FEATURES & BENEFITS

- **Wide Instrument Compatibility** – Use with all TROLL instruments including: Level TROLL® 300, 500 & 700, Aqua TROLL® 200, TROLL® 9500, miniTROLL® and TROLL® 9000.
- **Latest Microsoft Operating System** – Microsoft Windows Mobile® 5 includes Microsoft Internet Explorer®, Word, Excel®, PowerPoint®, Outlook®, ActiveSync®, plus much more. Enjoy all the benefits of a handheld PC.
- **Smart Lithium-Ion Battery** – Smart battery cannot be over-charged and operates for up to 20 hours on one charge.
- **IP67 Rating** – Ultra-rugged construction protects against dust and accidental submersion in water.
- **Intel 300 MHz or 520 MHz Processor** – Faster navigation and faster processing.
- **Flexible Connections** – Transfer data with ease. 9-pin RS232 connection plus two mini USB connections allow the RuggedReader to be used as a host or client device.
- **Lightweight and Easy to Hold** – Ergonomic design fits comfortably in your hand.
- **Easy-to-use Keypad** – Large, tactile buttons are generously spaced for easy operation, even with gloves!
- **User-Accessible Expansion** – Gain additional storage or room for GPS or Bluetooth® integration using two user-accessible expansion slots (CF or SD).
- **Large, High Contrast, Color LCD** – View data easily even in direct sunlight. Select between portrait or landscape view!
- **Loaded with Powerful Win-Situ® Software** – View real-time data, set up tests, download data, calibrate sensors, view calibration reports plus a lot more.



Ultra-rugged shell with lightweight magnesium case

Vibrant color display for excellent visibility in all weather and lighting conditions

Large backlit keys



Improved hardware connections: USB host and client, plus 9-pin RS232

CALL GEOTECH TODAY (800) 833-7958

Geotech Environmental Equipment, Inc.

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SPECIFICATIONS

Processor (2 available models)	Intel® XScale® PXA270, 300 MHz Intel® XScale® PXA270, 520 MHz	Environmental	Operating Temperature: -22° to 122°F (-30° to 50°C) Storage Temperature: -22° to 140°F (-30° to 60°C) Waterproof and dust-proof, IP67 Shockproof: multiple drops from 5 ft. (1.5 m) onto concrete through temperatures ranging from -22° to 122°F (-30° to 50°C) MIL-STD-810F: water, humidity, sand and dust, vibration, altitude, shock
Operating System	Microsoft Windows Mobile® 5 Non-volatile, secure, stored in Flash, protected from accidental erasure	Included Software	Microsoft Internet Explorer® Mobile Microsoft Office Mobile: Word, Excel®, and PowerPoint® Mobile Microsoft Outlook® Mobile, which includes: Inbox, Calendar, Contacts, Instant Messaging, Tasks, Notes, Spell Checker Microsoft ActiveSync® 4.0 for desktop or laptop Win-Situ® Mobile, Pocket-Situ, Win-Situ® Sync, HydroPlus CE®** Terminal Services Client (can control your desktop) Microsoft Windows® Media Player Mobile 10 Calculator, Pictures, Videos (image and video viewer) and Games Voice Recorder Handwriting Recognition
Memory (RAM)	64 MB low-power RAM OS uses RAM more efficiently, providing more memory for larger applications and databases.	Development Environment	SDK for Windows Mobile supports: Embedded Visual C++ version 4.0 Visual Studio 2005
Data Storage	Internal solid-state 128 MB Flash disk Data and applications securely stored in Flash	Standard Accessories	Rechargeable Li-Ion battery Screen protector (2) AC charger (universal voltage) In-Situ Quick Start Guide USB cable Microsoft CD-ROM Captured full-size stylus (1) On-line tutorial Hand strap Universal plugs (US, UK, EU & Aus) Car charger Communications connector cover
CF and SD Card Slots¹	Compact Flash: Type I or Type II for data storage and other peripherals. Secure digital (SD or SDIO) can be used with memory cards and other peripherals. User accessible, fully sealed optional extended cap for camera, GPS, Bluetooth®, cellular modems, barcode, and other extended cards.	Wireless Communication Options¹	Bluetooth® supported with CF or SD Bluetooth® card Wi-Fi supported (requires SD or CF Wi-Fi adapter card for wireless networking) Wireless cellular modem for wide area communication
High Contrast Color Display	Active viewing area: 3.5" diagonal (89mm) High visibility TFT active matrix transfective LCD ¼ VGA, 240 x 320 pixels Selectable portrait or landscape view Backlit LCD	Certifications	FCC Class A European CE Mark
Touchscreen	Sealed, resistive, pressure sensitive touchscreen Convenient on-board stylus storage	Real Time Clock	Keeps correct date and time, even during long-term battery removal Warranted clock spec is ±3 min. per 30 days
Communications Module (patent pending)	COM 1: 9-pin sub D connector with 5V power on DTR USB host (Mini A) can control other devices USB client (Mini B) synchronizes information to other computers 12V DC jack for power input and battery charging (wall mount or vehicle charger)	Warranty	2 year limited warranty
Physical	Size: 6.5" length x 3.5" width x 1.7" height (165 x 89 x 43mm) Weight: 17 ounces (482 grams) Magnesium case with blue flexible overmold		
Keyboard	Quad arrow (up, down, left, right) Standard key functions include: Start – menu of applications Task – switches tasks Home – home desktop Return – activates enter function Context – activates context sensitive menu Record – launches audio recording function Screen rotation – portrait or landscape view Keys can be user-defined LED backlit keys		
Enunciators	External power/charge LED indicates battery charging status Notification LED to alert the user of events on the device Other enunciators on system tray		

¹ 520 MHz model recommended when using these options.
*For demo use only.

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