

Trimble ACU Controller

An innovative Windows CE.NET controller for truly Integrated Surveying

Trimble's revolutionary ACU controller incorporates a sophisticated graphical display and Bluetooth®* technology. The result is a cable-free or on-board data collection solution that gives you even more flexibility than ever before.

The ACU is specifically designed to attach to Trimble field sensors—it simply clips on to your total stations, your robotic rovers, or your RTK GPS rover poles—whatever you are working with. The ACU provides a single user interface to the most advanced on-board applications available.

Graphical display

The easy-to-use, color touch-screen display provides you with ultimate control over your data. Instant results make light work of visualization, navigation, data selection, positioning, and stakeout. Errors and omissions are greatly reduced because you can thoroughly check your data in the field.

Cable-free

Built-in Bluetooth capability gives you a short-range cable-free solution at the pole—set up is quicker and cable hassles become a thing of the past.

Compatibility

The ACU controller provides a common user interface for all your fieldwork regardless of the type of measurement technique or sensor used.

The Trimble ACU is attachable to the “hot shoe” on the Trimble 5600 or 3600 Total Stations, Trimble 5600 robotic rover, and the Trimble R8 and 5800 RTK Rover poles.

USB, serial, and ethernet communications are provided as standard, giving you fast and flexible data transfer options. In addition, the ACU is Internet-capable, with an external wireless modem you can easily send and receive files while you're in the field.

Choice of software

The Trimble ACU offers you a choice of software: Survey Pro software from TDS**, and Trimble Survey Controller™ software. In addition, the Microsoft® Windows® CE.NET operating system supports other specialized application software.

Built for the field

Trimble ACU is powered by the instrument, or the robotic/RTK rod holder. The internal battery provides

three hours of stand-by operation when detached from the instrument or rover. Environmentally rated to IPX4, and able to withstand a drop of 0.90 m (3 ft) onto a hard surface, the ACU is rugged enough for any job.

The ACU allows for operation at extreme temperatures from -20 °C to +55 °C (-4 °F to +131 °F).

Dedicated instrument control keys provide rapid access to frequently used functions and minimize keystrokes during data, code, or attribute entry.

Both the color display and keyboard are illuminated so that you can keep working in low-light conditions. In full sunlight or total darkness the ACU is an all weather, all visibility controller for any time of the day or night.

Wide range of applications

The ACU is ideal for a wide range of survey and measurement applications, including:

- Topographic surveys
- High-accuracy GIS
- Engineering
- Construction
- Architecture
- Asset management
- Mapping
- Cadastral



Key Features

- Clips on to Trimble's total stations, robotic rovers, Trimble R8 and 5800 GPS rover poles for improved flexibility
- Graphical color touch-screen display for improved quality assurance and control of your results
- Cable-free for more versatility in the field
- Advanced on-board software for all applications

You can rely on Trimble's field-proven equipment to increase your productivity and streamline your field operations.

* Bluetooth type approvals are country specific. Contact your Trimble representative for more information.

** Available in North America only.



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Technical Specifications

Standard software

- Microsoft Windows Explorer
- Pocket Internet Explorer
- Inbox e-mail client
- Microsoft WordPad
- Transcriber (handwriting recognition)
- Microsoft Windows Media Player
- Microsoft ActiveSync
- Connect to Desktop
- Remote Networking
- File viewers for Microsoft Image and Word
- Trimble field application software: Trimble Survey Controller, Survey Pro by TDS, Trimble SCS900

Standard accessories

- International AC recharger (100 V-240 V)
- USB data cable
- Communication multi adapter
- 2.5 m Hirose - Hirose cable system cable
- Hirose to DB9F PC-adapter
- 26 to 9 pin RS232 port adapter
- Pouch
- User guide on CD
- 1 stylus pen
- 10 screen protectors
- Microsoft ActiveSync for desktop PC on CD

Physical

Size 200 mm × 122 mm × 31 mm (7.9 in × 4.4 in × 1.2 in)
Weight 590 g (1.3 lb) including the internal battery
Memory 64 MB SDRAM, 128 MB internal non-volatile storage flash memory
Battery Internal 1000 mAh NiMH, rechargeable in unit

Environmental

Temperature

Operating and short-term -20 °C to + 55 °C (-4 °F to +131 °F)
Long-term storage -30 °C to + 70 °C (-22 °F to +158 °F)

Humidity 100% condensing MIL-STD-810F
Sand and dust Protection against wind-driven according to MIL-STD-810F

Water IPX4, sealed against accidental immersion according to EN 60 529
Drop 5 drops from 0.9 m (3 ft) onto hard surface

Electrical

Internal Internal NiMH rechargeable stand-by battery for 3 hours
External External power input from instrument or pole holder, connects to external power supply through any of its ports to charge internal battery

Interface

Display Passive touch screen, 320 × 240 pixel (QVGA) daylight-readable color 100 mm (3.9 in) TFT-LCD with CCFL frontlight display, works with stylus or finger
Keyboard 36 tactile-action hardware control keys, Soft Input Panel (SIP) virtual keyboard and transcriber software, full alphanumeric keyboard, dedicated navigation and instrument control keys

Audio Integrated speaker and microphone for audio system events, warnings, and notifications. External capability through Multiport

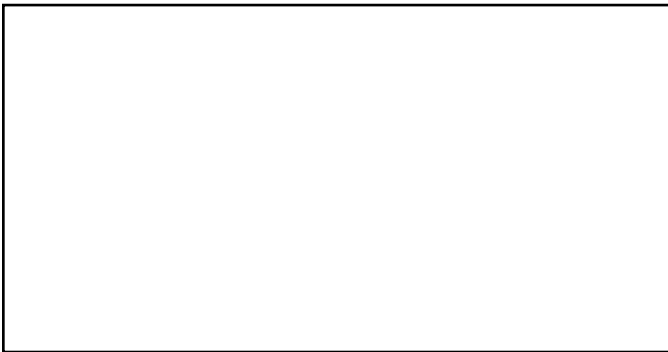
Input/Output

Communication ports Standard 9-pin male D-shell RS-232 serial port, USB-slave port, DC power port

Certification

Approvals Class B part 15 FCC certification, CE Mark approval, CSA IC specification and C-tick approval. Bluetooth type approvals and regulations are country specific

Specifications subject to change without notice.



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