

PConnectCE 2.33

Datalogger Support Software for Pocket PC or Windows Mobile™ Handhelds



PConnectCE software supports communications between a Pocket PC handheld and a Campbell Scientific datalogger. PConnectCE is compatible with handheld computers running Microsoft® Pocket PC or Windows Mobile™. Compatible dataloggers are our CR200(X)-series, CR500, CR510, CR10(X), CR800, CR850, CR1000, 21X, CR23X, CR3000, and CR7; both the mixed-array datalogger operating system (OS) and PAKBUS® datalogger OS are supported.

PConnectCE can be used to collect data from the datalogger, and transfer the data to an office PC. Collected data is transferred to the PC during the ActiveSync® process. This process also synchronizes program files between the handheld and the PC.

Functions Supported

PConnectCE 2.33 retains all the functionality of previous versions including the capability to:

- Create unique station files for each datalogger
- Collect data from the datalogger
- Display real-time datalogger measurements. Measurements are updated every two seconds.
- Set datalogger flags, ports, and clock
- Access the datalogger terminal mode
- Transfer datalogger programs between the datalogger and handheld
- Display Final Storage data in tabular or comma-separated format
- Communicate using a direct serial connection, RF401-series Spread Spectrum Radio, SC-IRDA Infrared Interface (not compatible with the CR200(X)-series), or Bluetooth
- Graph one element from any array
- Communicate at baud rates of 38,400 bps (CR800, CR850, CR1000, CR23X, CR3000) and 9,600 bps (all other dataloggers)



Requirements

Datalogger

- CR200(X)-series, CR500, CR510, CR10(X), CR800, CR850, CR1000, 21X, CR23X, CR3000, or CR7
- **Operating System:** PAKBUS® or mixed-array

Microsoft® Pocket PC or Windows Mobile™ Handheld

- **Operating System:** Microsoft® Pocket PC or Windows Mobile® (Palm OS-based PDAs require PConnect)
- Must be capable of serial communication
- If using the SC-IRDA, the handheld must have an IRDA port and an IR chip set compatible with the SC-IRDA.
- For Bluetooth communication, the handheld must be Bluetooth enabled. Third-party Bluetooth serial port adapter required on the datalogger.

Datalogger Connection

- **PDA-to-CS I/O Connector or PDA-to-RS232 Cable** (both are shipped with PConnectCE software). The PDA-to-CS I/O connector attaches to the datalogger's CS I/O port (not compatible with the CR200(X)-series dataloggers). The PDA-to-RS232 cable attaches to the datalogger's RS-232 port (not compatible with the CR500, CR510, CR10(X), 21X, and CR7).

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- **SC-IRDA Infrared Interface** connects to the datalogger's CS I/O port (not compatible with the CR200(X)-series dataloggers)

Handheld Connection for Serial Communication

- **PDA-to-Serial Cable or Cradle** (one end of the cable/cradle must terminate in a 9-pin serial connector). The cable/cradle connects to the PDA-to-CS I/O connector or PDA-to-RS232 cable via the 9-pin serial connector. This cable/cradle may be included with the handheld, or it may need to be purchased as a separate accessory from the handheld manufacturer or a third party supplier.

Bluetooth Communication

- **Third-party Bluetooth Serial Adapter.** The interface and/or cables that are used to connect the adapter to the datalogger will vary, depending upon whether the device acts like a DTE (computer) device or DCE (PDA) device. In some instances, this is evident by the pin-out of the adapter, but not always. A general rule is if the adapter has a 9-pin female connector, then the adapter is connected to the datalogger using the PDA-to-CS I/O connector for the CS I/O port or the PDA-to-RS232 cable for the RS-232 port. If the adapter has a 9-pin male connector, then the adapter is connected to the datalogger using an SC32B for the CS I/O port or it can be connected directly to the RS-232 port.

Software

- A compatible version of Microsoft ActiveSync® installed on the PC
- One copy of PConnectCE software per handheld

Computer

- Windows-based, 32-bit operating system (Windows 95, 98, ME, NT, or XP)

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