

PConnect 3.4

Datalogger Support Software for Palm OS-based PDAs

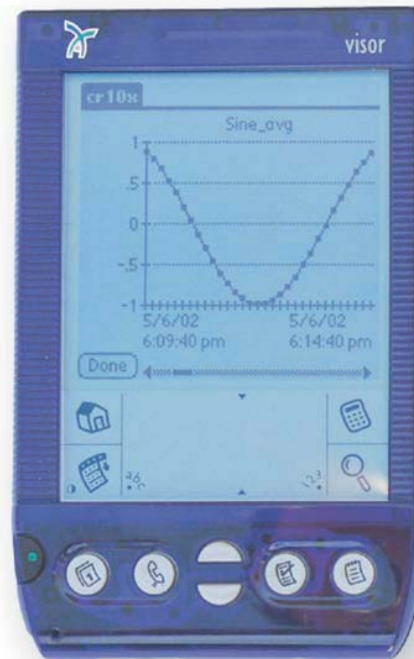
PConnect software supports communications between a Palm OS-based PDA and a Campbell Scientific datalogger. PConnect is compatible with Palm OS-based PDAs with OS version 3.3 or greater, including Palm™ Inc., handhelds and Handspring® Visor™ Neo and Platinum. Compatible dataloggers are our CR200(X)-series, CR800, CR850, CR500, CR510, CR10(X), CR1000, 21X, CR23X, CR3000, and CR7; both mixed-array and PakBus® datalogger operating systems are supported.

PConnect 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 HotSync process. This process also synchronizes program files between the PDA and PC.

Functions Supported

PConnect 3.4 retains all the functionality of the previous versions including the capability to:

- Communicate at baud rates of 38,400 bps (CR1000, CR800, CR850, CR23X, CR3000) and 9,600 bps (all other dataloggers)
- Create unique station files for each datalogger
- Collect data from the datalogger
- Transfer datalogger programs between the datalogger and PDA
- Display real-time and historical data. Real-time data is updated every two seconds
- Graph one element from any array
- Set datalogger flags, ports, and clock
- Communicate using a direct serial connection, RF400-series Spread Spectrum Radio, SC-IRDA Infrared Interface (not compatible with the CR200(X) series), or Bluetooth
- Access the datalogger terminal mode
- Use memory expansion cards to expand the PDA's memory



Requirements

Datalogger

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

PDA

- **Operating System:** Palm OS Version 3.3 or later (Pocket PC OS-based PDAs require PConnectCE)
- Must be capable of serial communication
- **Memory:** 2 MByte if collecting data from one standard datalogger; 8 MByte recommended when collecting from many stations or from dataloggers with extended memories
- If using the SC-IRDA, the PDA must have an IRDA port and an IR chip set compatible with the SC-IRDA.
- For Bluetooth communication, the handheld must be Bluetooth enabled.

Datalogger Connection

- **PDA-to-CS I/O Connector or PDA-to-RS232 Cable** (both are shipped with PConnect software). The PDA-to-CS I/O connector connects to the CS I/O port on a CR500, CR510, CR10(X), CR800, CR850, CR1000, 21X, CR23X, CR3000, or CR7 datalogger. The PDA-to-RS232 cable connects to the RS-232 port on a CR200(X)-series, CR800, CR850, CR1000, CR23X, or CR3000 datalogger.

--OR--

- **SC-IRDA Infrared Interface** connects to the CS I/O port on a CR500, CR510, CR10(X), CR800, CR850, CR1000, CR3000 datalogger

PDA 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 PDA, or it may need to be purchased as a separate accessory from the PDA 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

- Palm Desktop Software installed on the PC
- One copy of PConnect software per PDA

Computer

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

PConnect is a trademark of MeasureTek, Inc.; Palm OS, HotSync, and Handspring are registered trademarks of palmOne, Inc.; Visor is a trademark of palmOne, Inc.

