# PC400 Version 4

## Mid-Level Datalogger Support Software

# PC400 4 Datalogger Support Software

PC400 is Campbell Scientific's mid-level data-logger support software. This versatile software supports a variety of telecommunication options, manual data collection, and data display. It includes an easy-to-use program generator as well as full-featured program editors.
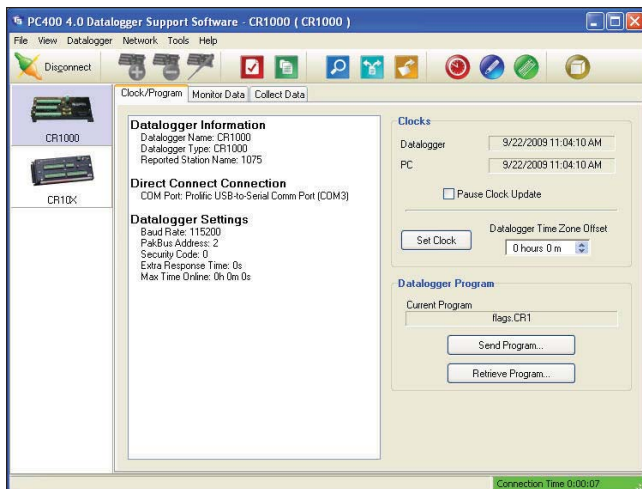


PC400, our mid-level software, provides a simple user interface that supports all contemporary dataloggers and many retired dataloggers.
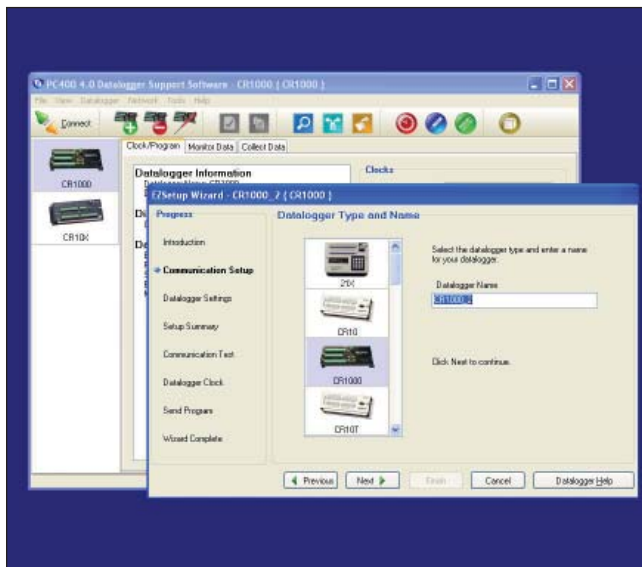


The EZSetup Wizard walks you through the datalogger setup, step-by-step.

## Features/Benefits

- EZSetup Wizard for easier station setup
- Compatible with all of our contemporary dataloggers and many retired dataloggers (e.g., CR510, CR10(X), 21X, CR23X)
- Short Cut, CRBasic, and Edlog programming tools used to develop and edit datalogger programs that measure sensors and control SDM devices, multiplexers, and relays
- Data retrieval via direct connect, phone modems, Ethernet, radios (UHF, VHF, or spread spectrum), or multidrop modems*
- Real-time or historic data displays
- Time-series graphs for unlimited number of elements from a data file
- Troubleshooting tools (terminal emulator and communications log)
- Device Configuration Utility (DevConfig) for setting up Campbell Scientific hardware

## Station Setup, Monitoring & Collecting Data

*EZSetup Wizard*

The EZSetup Wizard is a simple, station-oriented wizard that walks the user through the following steps:

1. **Communication Setup**—choose the datalogger from a list, pick the communication device, then fill in the blanks as prompted on the screen.
2. **Datalogger Settings**—accept or modify the default baud rate, security code, extra response time, and maximum time active.
3. **Setup Summary**—review the communications and datalogger settings to verify the settings selected earlier.
4. **Communications Test**—establish communications between the datalogger and PC to verify they are interacting properly.
5. **Datalogger Clock**—set the datalogger date and time to the PC date and time.
6. **Send Program**—send a program from the PC to the datalogger.

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*\*PC400 does not support combined communication options (e.g., phone-to-RF), PakBus routing, or scheduled data collection. LoggerNet software is recommended for applications that require these capabilities.*

*Clock/Program, Monitor Data, Collect Data*
These tools allow customers to set/edit the station's settings, set the datalogger's clock, view real-time data, set flags/ports, and collect data on demand. Communication links supported include direct connect, phone modems, Ethernet, narrow-band UHF and VHF radios, spread spectrum radios, or multidrop modems.

## Programming

*Full-featured Programming Tools*
PC400 offers two full-featured programming tools—the CRBasic Editor and Edlog. The CRBasic Editor uses syntax similar to BASIC programming language to provide sophisticated programming capabilities for our CR200-series, CR800/CR850, CR1000, CR3000, CR5000, and CR9000(X) dataloggers. Edlog provides programming capabilities for our CR500, CR510, CR10(X), 21X, CR23X, and CR7 dataloggers.

*Simple Program Generator*
For those who prefer a simpler means of programming their dataloggers, PC400 includes Short Cut for Windows (SCWin). SCWin provides a wizard-like interface for generating programs for all Campbell Scientific dataloggers and supports all of the popular sensors we offer, as well as user-created custom sensor files (using an existing sensor file as the starting point). Short Cut can also be used for the ET107, ET106, and MetData1 Weather Stations.

## Data File Viewing

*View*
View provides tabular data displays and line-graphs of an unlimited number of elements from a data file. The graphs can be saved in a variety of formats. The left and right y-axes of the graphs can be configured independently.

## Other Applications

*Device Configuration Utility (DevConfig)*
DevConfig allows you to send new operating systems to dataloggers and other devices with flash memory, configure various PakBus® settings in dataloggers, and edit settings for communication peripherals such as the MD485 and RF401. The latest DevConfig can be downloaded from our website.
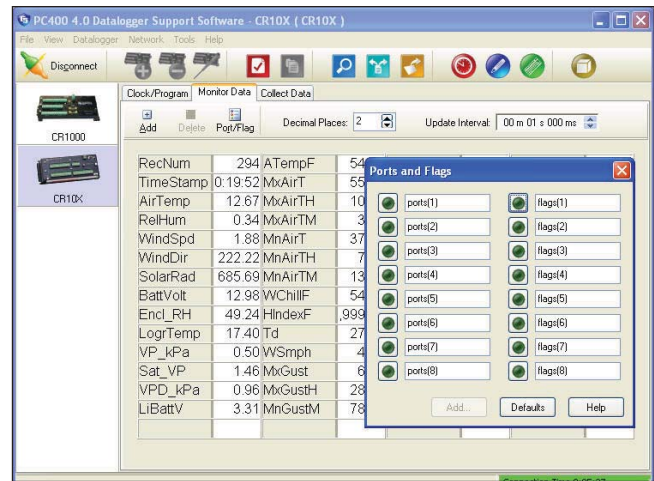

Monitor Data tab allows you to view real-time data, ports, and flags.


Using Short Cut, customers select the sensors to measure from a list and choose the measurement units.
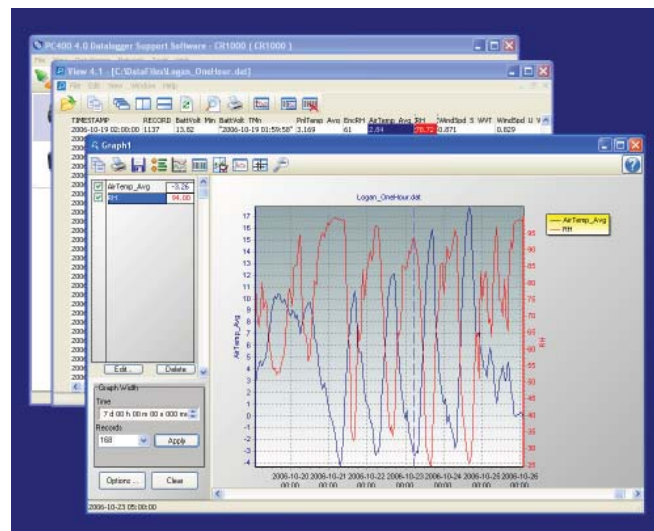

View displays historical data in a tabular or graphical format.

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## Card Convert

CardConvert is used to convert and save binary data from a PC Card or CompactFlash® card. PC Cards are compatible with our CR5000 and CR9000X dataloggers. CompactFlash cards are compatible with our CR1000, CR3000, CR5000, and CR9000X dataloggers.



Campbell Scientific offers and recommends CompactFlash cards manufactured by Silicon Systems. Silicon Systems cards are industrial-grade and have passed our ESD testing.

## Split

Split is used to post-process data files and create reports. It sorts and combines data based on time or conditions, performs calculations on data values, converts "Day of Year" calendar dates into more traditional date/time stamps and allows variable column widths for printable reports.

## Computer Requirements

- Recommended operating system—Windows® Vista, XP, or 7
- TCP/IP telephony services must be running on the computer