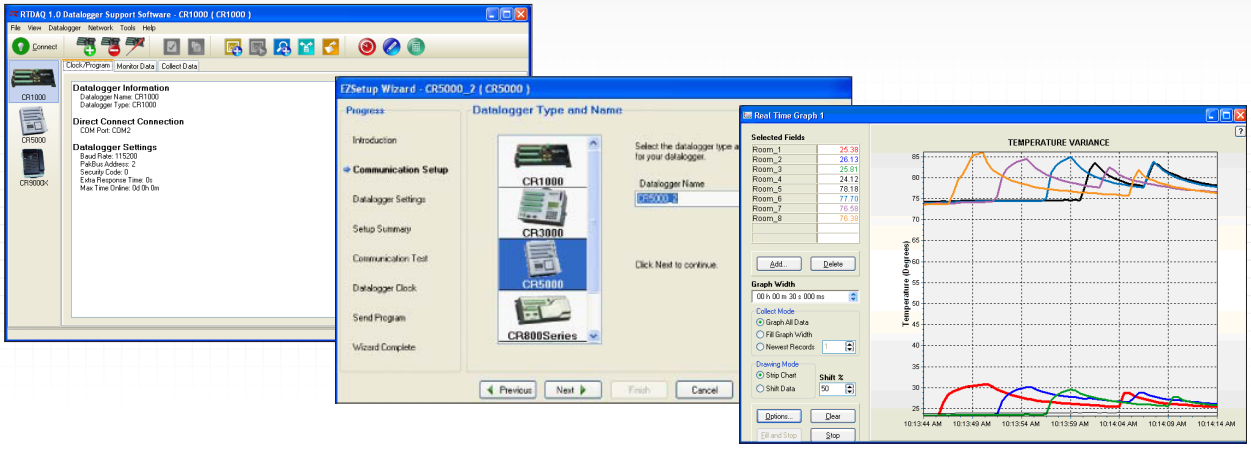
CAMPBELL SCIENTIFIC®
WHEN MEASUREMENTS MATTER

RTDAQ version 1.3

Real-Time Data Acquisition Software



Overview

RTDAQ is Campbell Scientific's datalogger support software targeted for high-speed data acquisition applications. This versatile software supports a variety of telecommunication options, manual data collection, and extensive data display. RTDAQ includes easy-to-use program generators as well as full-featured program editors.

Benefits and Features

- Compatible with our CR6, CR9000X, CR9000XC, CR5000, CR1000X, CR1000, CR3000, CR800, and CR850 dataloggers*
- Uses Short Cut, ProgGen, or CRBasic to develop and edit datalogger programs that measure sensors and control multiplexers, SDM devices, and relays
- Variety of windows for monitoring datalogger data in near-real time, including Fast Graph, Histogram Viewer, FFT Viewer, Table Monitor, and X-Y Plot
- View historical data files in specialized modes (FFTs and histograms)
- Retrieves data via direct connect, phone modems, TAPI, TCP/IP, radios (UHF, VHF, or spread spectrum), short-haul modems, or multidrop modems**
- Provides non-invasive field calibration of sensors—incorporating the appropriate multipliers and offsets into the datalogger program
- A fully-functional 30-day trial version is available from our website

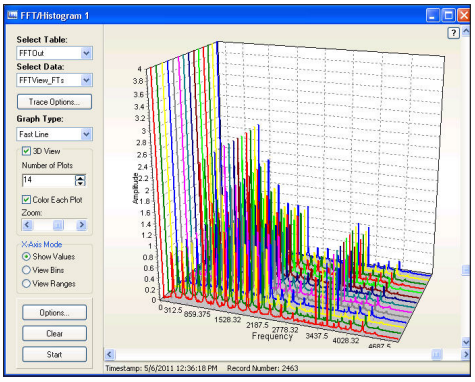
Technical Description

EZSetup Wizard

To facilitate station setup, RTDAQ provides an EZSetup Wizard. This simple, station-oriented wizard walks the user through the setup process. The wizard can also be used to modify settings for an existing station.

Clock/Program, Monitor Data, Collect Data

These tools are used to set a datalogger's clock, send programs from the computer to the datalogger, display real-time datalogger measurements in several different formats, and collect data on demand.



The FFT is an example of the many real-time data displays that allow you to view the measurements instantly.

**Although RTDAQ is not compatible with the retired CR9000, you can upgrade a CR9000 datalogger to a CR9000X by replacing the CR9031 Module with a CR9032 Module.*

***RTDAQ does not support combined communication options (e.g., phone-to-RF) or scheduled data collection; LoggerNet is recommended for these applications.*

Short Cut, ProgGen, CRBasic

RTDAQ provides a choice of programming tools. Short Cut (SCWIN) is an easy-to-use program generator that creates straight-forward programs in seven steps. It supports over 100 sensors (including generic measurements) and multiplexers.

ProgGen is an updated version of the detailed program generator contained in PC9000 software (RTDAQ's predecessor). ProgGen contains many measurement and setting windows for configuring almost any type of sensor. It is compatible only with the CR5000 and CR9000X dataloggers.

The CRBasic Editor provides sophisticated program editing capabilities. Programs generated by Short Cut and ProgGen can be edited in CRBasic.

View Pro

View Pro lets you view data files (*.DAT files) in a tabular format. It can create graphs that display multiple traces of data. View Pro also supports the viewing of specialized data storage such as FFTs and histograms.

Real-Time Monitoring and Control (RTMC)

RTMC is used to create customized displays of real-time data, flags, and ports. It provides digital, tabular, graphical, and Boolean data display objects, as well as alarms. Sophisticated displays can be organized on multi-tabbed windows. Users who want additional capabilities and more flexibility can purchase RTMC Pro—an enhanced version of RTMC.

Device Configuration Utility (DevConfig)

DevConfig allows you to send new operating systems to dataloggers and other devices with fl ash memory, configure various PakBus® settings in dataloggers, and edit settings for communication peripherals such as the NL201 and RF407. The latest DevConfig can be downloaded from our website.

LogTool, PakBus Graph

LogTool and PakBus Graph can help you discover the cause of communication problems.

Card Convert

CardConvert is used to convert and save binary data from a CompactFlash® card, microSD® card, or PC Card. CompactFlash cards are compatible with our CR1000, CR3000, CR5000, and CR9000X dataloggers; microSD cards are compatible with our CR1000X and CR6 dataloggers; and PC Cards are compatible with our CR5000 and CR9000X dataloggers.

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

- PC Operating System: Windows 10, 8, or 7

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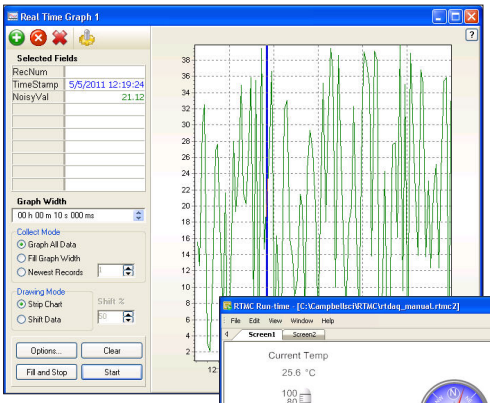
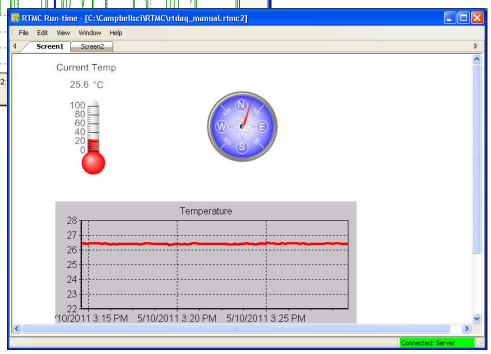


Using View Pro (at left), you can display historical data in a tabular or graphical format.



With its point-and-click interface, RTMC (at right) is a simple solution for generating real-time displays.