RTDAQ
Real-Time Data Acquisition Software

Overview

Current Version: 1.4.1

RTDAQ is Campbell Scientific's data logger 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. RTDAQ is available on our website.

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

Benefits and Features

❯ Variety of windows for monitoring data logger 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)

❯ Integration with RTMC and PakBus Graph

❯ Provides non-invasive field calibration of sensors—incorporating the appropriate multipliers and offsets into the data logger program

❯ Includes ShortCut for program generation on the CR1000X, CR6, CR800 series, CR1000, CR3000, and CR5000, as well as entry-level capability for the CR9000X

❯ Updated versions of the detail-level program generators for the CR9000X and CR5000 are included (previously available in PC9000)

❯ A fully functional 30-day trial version is available

Technical Description

EZ Setup 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 data logger's clock, send programs from the computer to the data logger, display real-time data logger measurements in several different formats, and collect data on demand.

For comprehensive details, visit: **www.campbellsci.eu/rtdaq**

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 data loggers and other devices with flash memory, configure various PakBus settings in data loggers, and edit settings for communication peripherals such as the NL201 and RF401A.

LogTool, PakBus Graph

In the Tools pull-down menu, you can select LogTool and PakBus Graph. These tools can help you discover the cause of communication problems.

Card Convert

CardConvert is used to convert and save binary data from a PC Card, CompactFlash card, or microSD card. PC Cards are compatible with our CR5000 and CR9000X dataloggers. CompactFlash cards are compatible with our CR1000, CR3000, CR5000, and CR9000X dataloggers. MicroSD cards are compatible with our CR6 and CR1000X dataloggers and our GRANITE 6, GRANITE 9, and GRANITE 10 DCPs.

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.

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Specifications

Current Version	1.4.1
Operating System	Windows 11 or 10
Purchased Separately	Yes
Software Level	Intermediate to advanced

Communications Supported	Direct connect, Ethernet, short-haul, phone modems (land-line, cellular, voice synthesized), RF transceivers (UHF, VHF, and spread spectrum), multidrop modems

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Scheduled Data Collection Supported	No	Data Display Supported	Numeric, graphical, Boolean data objects