RTDM RUN-TIME VERSION
REAL TIME DATA MONITOR
INSTRUCTION MANUAL

REVISION: 1/04

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RTDM Run-Time Version

1. What is RTDM?

RTDM is a powerful program that allows you to design display screens on which you can view real-time, pseudo real-time or archived datalogger data.

The run-time version only allows display of pre-designed forms.

2. Computer System Requirements

RTDM will run on any PC which has the minimum configuration shown below, but, as with most of today's powerful software applications, will run best with more powerful computers having more available memory. RTDM requires a minimum of 25Mb of hard disk space. RTDM will normally be supplied on CD.

2.1 Recommended Minimum Configuration

A Pentium PC running Windows 95/98/ME/XP/2000/NT with 64Mb RAM. Additional memory is recommended if PC208W or LoggerNet is running at the same time.

3. Installation

Insert the RTDM installation CD into your computer's CD-ROM drive. If your system is configured for Autorun, the installation procedure will begin automatically. If not, select Start, then Run. Type d:\setup.exe into the box (where d=your CD-ROM drive letter) and press OK. Follow the on-screen prompts.

3.1 Uninstalling RTDM

Uninstall RTDM by using the normal Windows uninstall procedure. Go to Control Panel (Start/Settings/Control Panel) and double-click Add/Remove Programs. Select 'Campbell Scientific RTDM version 2.1', and the software will be uninstalled.

4. Run Mode

RTDM Run-Time can be started from the Windows 'Start' menu by selecting Start/Programs/RTDM v2.1/RTDM v2.1 RunTime. You can also use Windows Explorer to navigate to the RTDM v2.1 directory and selecting rtdmrun.exe.

When started you will be presented with a selection screen as shown below.

Select the project file (which will have an extension of *.rdp) you wish to run. This screen also enables you place a shortcut on your desktop for quick access to the runtime application, and to give it a unique caption

4.1 Run-Time Display Manipulation

When in run mode your projects will normally update according to the parameters specified during the design of the project. The scroll/pan and zoom facilities exist so that you can manipulate your charts in order to examine historical data or to enlarge specific portions of the chart.

4.1.1 Scroll/Pan

You can scroll/pan a chart to examine older data by clicking and holding the right mouse button and dragging the chart contents in any direction. When in this mode, real time display (but not collection) is suspended and a small clock face appears on the upper right of the chart. To return to real-time scrolling, click on this clock.

4.1.2 Zoom

To enlarge a section of the chart you can click and hold the left mouse button and drag the mouse to describe a box or frame. On releasing the mouse button the contents of this frame will be enlarged. This process can be repeated on the enlarged data until you get the level of detail you require. When in this mode, real time display (but not collection) is suspended and a small clock face appears on the upper right of the chart. To return to real-time scrolling, click on this clock.

4.1.3 Exact Point Values

The exact value of any point on a chart (except meters) can be displayed by clicking the left mouse button on, or slightly below, the point on the chart required. The value will be displayed until the button is released.

4.2 Real Time Scrolling

In normal real-time (or pseudo real-time) operation the charts will continuously move, or scroll, from right to left as new data is displayed. Whenever any display manipulation is carried out, as explained above, the scrolling will pause, and a clock icon will appear in the top right corner of the display. To resume real-time scrolling, click on this icon.

4.2.1 Tabbed Notebook Display

The Tabbed Notebook component allows a display to be split onto a number of different pages. These pages can be made to turn from one page to the next automatically, with a pre-defined delay between pages, like flicking through a book. This produces a continuously changing display, which can be useful for 'hands-off' automatic presentations, etc.

4.3 Controlling the Display (Auto Continue)

When the project includes scrolling charts or tabbed notebooks, the user can manually pause and restart the displays as indicated above (see Real Time Scrolling). However, the designer may have built in a function to restart the display automatically after a given time (this function is called Auto Continue). This function guards against a display being inadvertently paused for a long period, perhaps causing the user to be unaware of an important event or an alarm condition for some time.

When Auto Continue is active, if a display has been paused for any reason, when the maximum delay time (specified by the project designer at design time) is reached, the clock face icon will start to flash for a few seconds, and then scrolling will restart. To prevent scrolling from re-starting automatically, the user must reperform the manual operation that originally caused the scrolling to stop (for example, using zoom on a chart). If Auto Continue is not enabled, the user can start and stop scrolling manually as discussed above, bearing in mind that they may be unaware of any alarm or other important conditions while scrolling is paused.

5. Further Details and Contact Information

A comprehensive on-line HELP SYSTEM is provided with the full development version of RTDM. For details of how to upgrade to the full version, please contact Campbell Scientific or your local supplier.