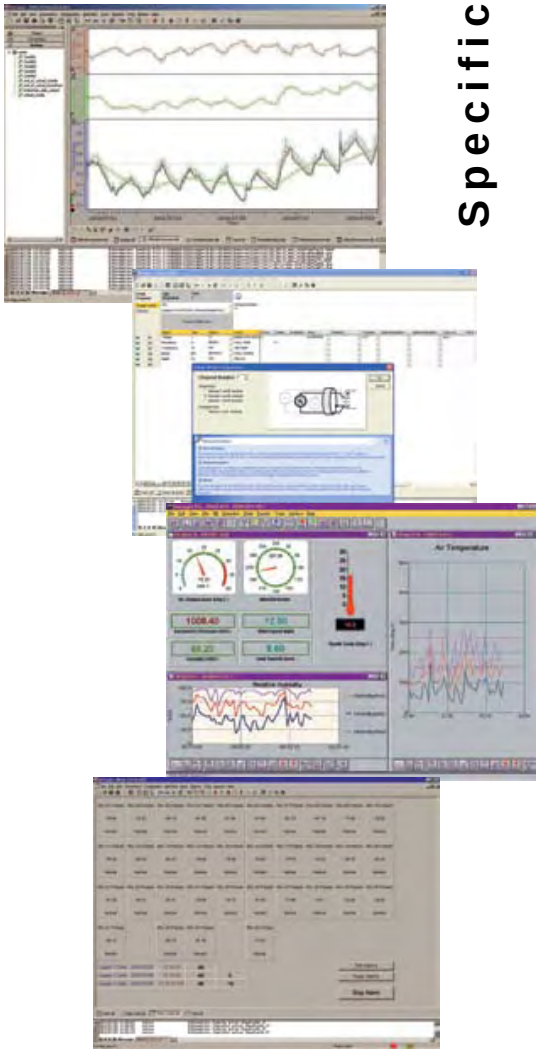
DeLogger™5 & DeLogger™5 Pro Software

dataTaker®

Intelligent Data Logging Products

Specifications

- **Graphical software for *dataTaker* data loggers**
- **Display and analyse real time or historical data**
- **Ethernet support - TCP/IP**
- **Remote monitoring & control (Pro) SCADA**
- **Trend plot, mimic and spreadsheet views**
- **Graphical or text programming**
- **Windows XP and Windows Vista compatible**



Visual Software Packages for *dataTaker* loggers

Datataker's software packages, *DeLogger 5* and *DeLogger 5 Pro*, provide you with a complete software solution. These packages make it easy to program simple or complex data acquisition and data logging projects for the *DT80* range and *DT800 dataTaker* data loggers.

DeLogger 5

DeLogger 5 software is included with the *DT80* range and *DT800 dataTaker* data loggers, providing you with a powerful, yet easy-to-use tool for programming and supervising a *dataTaker*. Use the graphical interface to set-up your system. *DeLogger 5* allows you to monitor sensors and alarms while logging data. The software package has the capability to display real time or logged data in the following views:

- Charts and trend plots with zoom and multi-variable capabilities
- Mimics (analog meters only)
- Tabular and raw text data for simple reporting
- Spreadsheet capabilities similar to Microsoft's Excel

Data can also be exported in text based formats. Using *DeLogger 5* provides you with a complete solution for monitoring, logging, displaying and analysing data. *DeLogger 5* can be upgraded to *DeLogger 5 Pro*.

DeLogger 5 Pro

DeLogger 5 Pro is the advanced level, having additional functionality to many of the basic functions including:

- Support for modem connection to remote *dataTaker* loggers (e.g. PSTN, GSM, CDMA, Satellite and Radio)
- Automated and Scheduled Management of multiple local or remote *dataTaker* data loggers)
- Strong reporting capabilities (including web publishing and email)
- Sophisticated database for comprehensive and reliable data management
- Additional mimic display and control objects
- Additional charting options via the Analyse Window

DeLogger 5 Pro provides you with powerful and easy-to-use features for small or large systems based around *dataTaker* data loggers.

Specifications common to *DeLogger 5* and *DeLogger 5 Pro*

DeLogger 5 is the base version of *DeLogger 5 Pro*, which is why the two software packages share many features and capabilities.

Visual Software

DeLogger 5 is Windows based software that allows you to program and supervise *dataTakers* via USB, RS232 or Ethernet connections without using the *dataTaker's* command language. Instead of typing commands, you build *dataTaker* programs by selecting from menus in the program builder windows.

Project Oriented

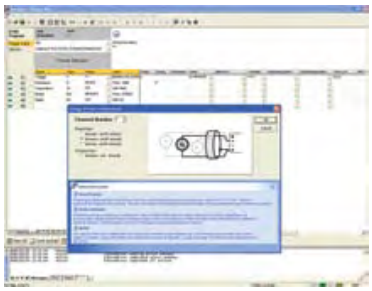
DeLogger 5 uses the "project" concept. A project contains all the information related to a particular *dataTaker* application. For example, a project may include:

- Several *dataTaker* programs (for quick re-programming when you need the *dataTaker* to do something different)
- Two chart windows (for viewing today's data in real time along with a replay of yesterday's logged data)
- A mimic window containing virtual meters (for easy identification of over-range conditions).

When you launch a specific project, you have everything at hand, as it was the last time you used it, with access to the project's historical data.

Graphical Program Builder

The *DeLogger 5* program Builder provides an intuitive way to set-up your *dataTaker*. Use options from drop-down menus to construct a *dataTaker* program.



DeLogger 5's program Builder supports:

- *dataTaker* data acquisition schedules and alarm schedules
- Signal types accepted by the *dataTaker*
- Spans, polynomials and calculations

Sensor wiring help when you need it

The Program Builder illustrates sensor wiring options to provide clear and simple guidance on connecting sensors to each model of *dataTaker*.

Data Viewing Windows

DeLogger 5 provides numerous options for viewing gathered data in real time or from historic records. Multiple data views may be visible and updated simultaneously. Views can also be conveniently printed.

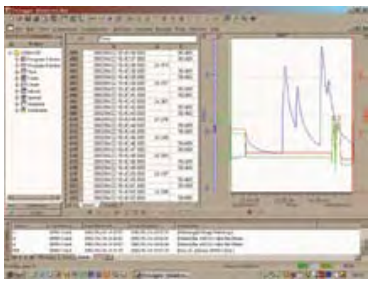


Chart Windows

You can use a *DeLogger 5* Chart Window much the same as you would use a chart recorder. But *DeLogger 5* has additional charting features. For example, you can:

- Replay data that has scrolled out of sight in a scroll chart
- Customise chart attributes such as labels, trace colour and thickness, axis scale and limits and axis ticks
- View up to 12 channels per chart using up to 6 value axis
- Powerful zoom, scroll and axis adjustment
- *Additional features available in DeLogger 5 Pro*

Chart Windows are by far the most popular means of presenting data as they are simple to use and are an effective way to identify "events" in your data.

Mimic Windows

Mimic Windows display data as user-definable virtual instruments:

- *DeLogger 5* provides definable Needle meters
- Support user background images (.BMP or .WMF formats)
- Context sensitive pop-up menus on right mouse button
- *Additional features available in DeLogger 5 Pro*

Form Windows

Form Windows display data from selected channels of any connected *dataTaker* or valid data source in a formatted grid (similar to a spreadsheet: columns, rows & column headers)

- Display data site name, channel description and label, the value and its time stamp for every reading; one row per channel
- Display each channel's highest and lowest value for the current logging session
- Trend indicator for each reading shows whether value is greater than or less than previous reading

Text (Raw Data) Windows

Text Windows emulate the basic functionality of communications terminal software:

- Direct command entry for creating and editing *dataTaker* programs
- Direct program downloading to *dataTakers*
- Display real time and logged data

Spreadsheet Window

Provides full spreadsheet capability with inter-cell calculations and data manipulation and charting. Uses data from *dataTaker* Replay files or imported data. Can be used as a simple reporting tool or for exporting formatted data to other packages such as Microsoft's Excel.

- *Additional features available in DeLogger 5 Pro*

Additional *DeLogger 5 Pro* Features

DeLogger 5 Pro has additional features that are principally designed to support a network of remote *dataTakers*:

Remote Support

For communication with *dataTakers* at remote sites, *DeLogger 5 Pro* supports:

- Modems including GSM, radio and satellite
- Alarms from remote sites can trigger actions and reporting at the host
- Manual and automatic connection to remote sites
- Incoming alarm messages are saved in the database

Data sites simplify your work

DeLogger 5 Pro connects to and communicates with "data sites." A data site can be a single *dataTaker*, a large network of *dataTakers* or even a set of logged data from a data file or database. A data site can be in the same room as the one in which you are running *DeLogger 5 Pro*, or on the other side of the world.

Automation

DeLogger 5 Pro's user definable Actions offer an inbuilt scripting capability. Actions (tasks or processes) can run based on local or remote alarms, Mimic and Form screen controls, by the included Event Scheduler, called by other Actions or manually.

Actions can be as simple as running a sound file on alarm condition, or as complex as sequentially dialing a number of sites, downloading the data and preparing a report of the logged data.

Event Scheduling

DeLogger 5 Pro's scheduler performs user defined tasks (Actions) at predetermined times and frequencies. For example, you can tell *DeLogger 5 Pro* to dial the *dataTakers* at selected data sites and unload their data at 11:00pm every day.

Enhanced Alarm functionality

DeLogger 5 Pro can use incoming *dataTaker* Alarms to trigger Actions or forward incoming *dataTaker* Alarms to the default e-mail system. Individual Alarms can be sent (using a MAPI compliant mail client) by e-mail to alert field staff of site conditions and problems.

Innovative Data Storage and Availability

Like traditional data logging software, *DeLogger 5 Pro* allows you to store data in computer files. In addition, *DeLogger 5 Pro* incorporates a database that brings a new dimension to data collection, analysis and presentation, including:

- Ease and power in retrieving, processing and displaying information
- Faster than simple file based methods
- Instant reports incorporating up to eight data filter parameters
- Virtual data channels derived from Primary or calculated data sources

Database storage also means that previously cumbersome data operations, like appending new data to existing data, are now extremely simple. Memory cards can be unloaded directly to the database.

Web Publishing

DeLogger 5 Pro can create HTML (browser) versions of data views for manual and automatic Web Publishing. This allows Information to be available on Internet or Intranet for multiple users.

Additional Charting and Spreadsheet features

The Analyse Window combines Spreadsheet and Charting functions to give additional features and flexibility for your use. XY chart plotting is included for plotting channels against each other rather than against time (also known as a scatter chart).

Additional Mimic features

DeLogger 5 Pro increases the objects available in the Mimic view by including digital meters and annunciators, LED style indicators, additional analog meter types and buttons that can trigger Actions or send commands to *dataTaker* units.

Custom Reports

You can create reports in Crystal Reports™ ready for output using the built in report writer.

For sophisticated data manipulation or graphing, you can import data into a spreadsheet such as Microsoft Excel. And for real time reporting, you can use the Microsoft ODBC (Open Database Connectivity) drivers supplied with *DeLogger 5 Pro* to automatically update your Excel report as the data arrives.

Computer Requirements

You need the following computer configuration for *DeLogger 5* and *DeLogger 5 Pro*:

- Windows XP (Service Pack 2), Windows Vista
- 400MHz Pentium III processor or better
- 258MB of RAM with Windows XP, Vista
- 80MB of available hard disk space

Minimum *dataTaker* firmware version required:

DT800	*V3.1*
DT80	*V5.0*

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For full technical specifications download the user's manual from our website.

Your local distributor

Quality Statement: Datataker operates a Quality Management System complying with IS09001:2000. It is Datataker's policy to supply customers with products which are fit for their intended purpose, safe in use, perform reliably to published specification and are backed by a fast and efficient customer support service.

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