

Datalog version 5.0 Software (DL50) System Requirements and Installation

SYSTEM REQUIREMENTS

1. MS-DOS platform.
2. A minimum of 541K free conventional memory.
3. A 386 based PC as a minimum.

The DL50 software has been tested on and runs well on desktop computers ranging from 386 to 266MHZ Pentium types from both the MS-DOS and MS-DOS shell platforms. However, due to the many different computer setups, hardware, and BIOS' it is recommended that you run the DL50 software from "straight" MS-DOS. Laptop computers do not run well from the MS-DOS "shell" platform. Also, in most cases, the DL50 software runs well from a Windows environment like Windows 95, but this is not recommended.

To clarify the difference between the MS-DOS and MS-DOS shell platforms start with your computer in the Windows 95 screen (i.e. your desktop). To get to MS-DOS you move your cursor with the mouse down to "START" in the lower left corner of the screen and left-click. Then move the cursor up to "PROGRAMS" to locate MS-DOS Prompt. Finally, left-click on the MS-DOS Prompt icon. This will bring up the MS-DOS "shell" platform. (If you have an MS-DOS Prompt "shortcut" on you desktop a double left-click on it will do the same.) When this MS-DOS shell platform is run on laptop computers there are usually conventional memory limitations and COM port conflicts that will not allow the DL50 software to run properly. In order to run on a basic MS-DOS platform you can have your computer distributor configure your laptop computer to turn on in the MS-DOS mode. To get to "straight" MS-DOS yourself you can restart your computer in MS-DOS as follows: Start in the Windows 95 screen. Move your cursor over "START" on the lower left corner of the screen and left-click with the mouse. Left-click on "Shut Down". Select "Restart the computer in MS-DOS mode?" and then left-click on "Yes". When the computer restarts you will be in "straight" MS-DOS mode. Here is the most dependable place to run the DL50 software.

INSTALLATION

1. Insert the 3 1/2 Datalog version 5.0 "INSTALL" disk into the disk drive.
2. Put your computer into MS-DOS mode. (see explanation above)
3. Change directory to the floppy disk drive (e.g. type "CD A:").
4. Type "INSTALL".
5. Follow the directions in the install program.

This installation program will not erase your run files. You can either boldly go forth and INSTALL or be safe and back up your run files first. I hate throwing away old files before I know for sure that they are no longer needed. Dynatek has provided you with the same safety net in the form of a directory called C:\DATAZOLD (DATASOFT with OLD thrown in, plus a Z to look cool). All your old DATASOFT files are copied here when you install. BUT, be warned, if you install a second time DATAZOLD is overwritten a second time and your old files are smoke. It is safest to simply copy all your old files to floppy disks.

Your run files from the Datalog version 4.2A do not have custom vehicle and sensor files built into them. The DL50 program will put "DEFAULT" vehicle and sensor files in them the first time you open them up. You can edit these later.

RUN

1. Make sure you are at the C:> prompt.
2. Type "DATALOG".

PRIMARY MENU AND FUNCTIONS

Now you can run and explore to your heart's content. This is a good time to go through some of the new features. I'll run through them in the order of the command buttons on the main menu:

Datasoft D.A.T.A. Software Version 5.0

Current Event:
Current Vehicle:

Event Manager	Real Time Monitor
Download	Edit Vehicle/Sensor
View Run	Setup
Exit	

<ARROW> = Move
<TAB> = Move

<ENTER> = Select
<ESC> = Cancel

1. **EVENT MANAGER:** The new item here is the ability to delete old, unwanted events.

2. **DOWNLOAD:** This hasn't changed much except for the format on the screen.

3. **VIEW RUN:** There is an additional stage here to allow you to select your vehicle and sensor configuration. When you select VIEW RUN with a new run file the program asks if you want to customize that run file with the "Current Vehicle". (See "EDIT VEHICLE/SENSOR" to specify which "Vehicle" you want specified as the "Current Vehicle". This is where you set up a vehicle format to match your actual vehicle and sensor configuration.) Simply put, you tell the program how your bike is set up and the Datalog software remembers and attaches it to each run file. So, normally you can just hit <enter> to get past this page. But, it gives you a chance to change bikes if you want.

4. **REAL TIME MONITOR:** The extras here are the time-out and the customized analog channels. Each of the 12 analog channels can be customized to a specific range for temperature (Fahrenheit), PSI, etc.

5. **EDIT VEHICLE/SENSOR:** This section is the main reason for this software update. You can now customize each run file to your bike. You can set up sensor types and ranges. You choose which sensors are used on analog channels 1 through 12.

This is what the "Select Vehicle and Sensor" page looks like in Datalog version 5.0.

Select Vehicle and Sensor

Current Vehicle:

Available Vehicles: (Use <ARROW> to scan Vehicles)	<input type="text"/> <input type="text"/>	<input type="button" value="Add/Edit Sensors"/> <input type="button" value="Add Vehicle"/> <input type="button" value="Edit Vehicle"/> <input type="button" value="Delete Vehicle"/>	<input type="button" value="Exit"/> <input type="button" value="Help"/>
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<TAB> = Move <ENTER> = Select <ESC> = Cancel

Add or Edit a sensor by clicking in the "Add/Edit Sensor" button on the "Select Vehicle and Sensor" page. You can either choose from a list of sensors on the next page that comes up, or you can click on "Add Sensor" to create your own sensor parameters.

When you create your own sensor keep in mind that the Datalog hardware is based on 5 volts. The entries for "Sensor's Voltage Range" will normally be 0 and 5 volts. The entries for "Sensor's Units Range" is the sensor's range for 0 to 5 volts. For example, you might get a sensor that specifies 0 to 120 degrees for 0 to 6 volts. Enter the 0 and 120 in the "Sensor's Units Range" then enter 0 and 6 for the "Sensor's voltage range. The program software will automatically adjust to the 0 to 5 volt range. You will only see 0 to 100 degrees when you use the sensor.

You must enter both a sensor name AND a sensor description. Look at the list of sensors that came with the DL50 software for examples.

Finally, **SELECT CURRENT VEHICLE** on the "Select Vehicle and Sensor" page. This is the vehicle definition that is attached to a new download run. Whenever a new download run is born you are asked to name it. The first page after downloading asks you to select the **CURRENT VEHICLE** (type y for yes or just hit <return>), or choose from a list of vehicles (you get this list if you type n for no).

6. **SETUP:** Select your COM port setting and your RPM scale setting.

Choose which COM port you will be using to download from the Datalog box. This is the port you connect to your download cable. Usually this is COM1. This port is also the main reason for operating your Datalog software from MS-DOS instead of Windows 95. It works this way: The Datalog hardware waits for you to press the download button before sending data to the COM port. Once you press this button the data is downloaded in a continuous uninterruptable stream. An operating system such as Windows 95 allows one or more devices to interrupt this data stream. This is why it is best to operate from MS-DOS.

Your engine RPM scale setting is also chosen here. You have the option for either 14000 or 8500 RPM.