

Ls2Win 1.0(SR10) Release Notes

Ls2Win 1.0(SR10)

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About Ls2Win

Ls2Win is the PC software for setting up and downloading data from the DL2 data loggers

What's New in Ls2Win 1.0(SR10)

1. Sensor Library provides new and updated sensor codes for
 - a. ML3 ThetaProbe Soil Moisture Sensor
 - b. Additional ML2 sensor codes with 150mS.m-1 calibration for ML2 compatibility with ML3 when ML3 and ML2 are used together.
 - c. Updated SM300 Temperature sensor name, description and table name to include ML3.

When upgrading from a previous version of Ls2Win, refer to **Upgrading from earlier Ls2Win versions**.

Sensor codes to be imported are:

For the ML3 ThetaProbe four new codes:

ML3	M3O	ThetaProbe (type ML3), organic soil
	M3M	ThetaProbe (type ML3), mineral soil
	MPO	ThetaProbe (type ML3), organic soil, %vol
	MPM	ThetaProbe (type ML3), mineral soil, %vol

For ML2 Special four new codes:

ML2 Special	MO2	ThetaProbe (type ML2), organic soil special
	MM2	ThetaProbe (type ML2), mineral soil special
	MOP	ThetaProbe (type ML2), organic soil special, %vol
	MMP	ThetaProbe (type ML2), mineral soil special, %vol

For ML3, SM300 Temperature sensor code

S3T	ML3, SM300 Temperature
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Installation

System Requirements

To install and use Ls2Win you will need:

- A PC running Windows 98, 2000, XP, Vista, Windows 7 and Windows 8.
- 12M of available hard disk space.
- One free RS232 serial port or USB-RS232 adapter.
- DL2e RS232 cable (supplied with the DL2e).

To install Ls2Win

You need local administrator rights to install Ls2Win under Windows 2000, XP, Vista, 7 and 8. Please contact your system administrator for further information.

Select the **Install Ls2Win 1.0(SR10)** link in the Contents page of the Delta-T Software and Manuals DVD and follow the on-screen instructions.

Alternatively, download Ls2Win 1.0(SR10) from www.delta-t.co.uk and click **Run** when the download completes.

Setup creates the following shortcuts on the Windows desktop and in a **Delta-T Devices Ls2Win** program group in the Windows Programs menu:

- **DL2 Control Panel** for operating the DL2e Logger.
- **DL2 Program Editor** for viewing, creating, and maintaining DL2e logging programs.
- **Dataset Viewer** for viewing logged data and exporting in comma-separated ASCII format.

The sensor codes are Sxx, where xx is the cable length. Select the cable length(s) that you want and click OK.

5. You will see the additional sensor types in the Sensor Library tab.

Modifying Ls2Win Sensor Library on Windows Vista, Windows 7, Windows 8

Windows Vista and later prevents programs from modifying files that are in subfolders of Programs Files, without explicit administrative privileges. Ls2Win does not request these privileges so fails to write any changes to the sensor library with the error 'Access Denied'. Follow the steps below to modify the sensor library.

1. Login as an local administrator
2. Run DL2 Program Editor as administrator by holding shift and right clicking on the shortcut on the desktop or under the start menu.
3. Make the changes to the sensor library and close DL2 Program Editor.

To Start Ls2Win

1. Connect the DL2e to the PC's serial port using the RS232 cable supplied with the DL2e.
2. Double-click the **New DL2 Control Panel** desktop icon.
3. Enter connection information in the **DL2 Connection Properties** dialog and click **OK**.
4. If required, change the MyLogger.dl2 file name in the **Save DL2 Control Panel As** dialog, and click **OK**.
5. Ls2Win connects to the logger and displays status information about the DL2e.
6. Ls2Win also creates a desktop shortcut to the connection properties that you have just entered (e.g. MyLogger), so you can click on the shortcut next time you want to connect to the DL2e.

To create a DL2e logging program:

1. Double-click the **DL2 Program Editor** icon on your desktop.
2. Enter program details, and then select **File > Send To Logger** to install the program in the DL2e.

To view a dataset file:

1. Double-click the **Dataset Viewer** desktop icon.

Dataset Import Wizard

Dataset Import Wizard imports Ls2Win datasets into Microsoft Excel spreadsheets.

To install Dataset Import Wizard select the **Install Dataset Import Wizard** link in the Contents page of the Delta-T Software and Manuals CD and follow the on-screen instructions.

Dataset Import Wizard is also available from the software downloads section of Delta-T's web site.

Known Issues

DL2 Program Editor: missing or duplicated sensor types in sensor library printout

In sensor library printouts, sensor types may omitted from the bottom of each page, or duplicated at the top of the following page.

Resolution: none.

Online Help fails to load under Windows Vista, Windows 7 and Windows 8

When starting online help (Help, Topics... command or pressing F1), Ls2Win reports that Help failed to load. Windows also displays a message informing that the Help was designed for an earlier version of windows, and that Windows Help is no longer supported by this version of Windows.

Resolution:

Microsoft has made WinHelp available for download from their web site for both Windows Vista, Windows 7 and Windows 8.

Follow Link to download WinHelp for either Windows Vista or 7 and Windows 8.

<http://go.microsoft.com/fwlink/?LinkId=124718>

Revision History

Ls2Win 1.0(SR10)

This is the current version of Ls2Win, and provides the following additional features over previous versions:

1. Sensor Library provides new and updated sensor codes for
 - a. ML3 ThetaProbe Soil Moisture Sensor
 - b. Additional ML2 sensor codes with 150mS.m-1 calibration for ML2 compatibility with ML3 when ML3 and ML2 are used together.
 - c. Updated SM300 Temperature sensor name, description and table name to include ML3.
 - d. Corrected units in ML2 organic % volumetric Application Note.
2. Ls2Win start menu folder now created in Delta-T Devices folder.
3. GSMConfig now included with Ls2Win, and is accessible from the Ls2Win start menu folder.

Ls2Win 1.0 (SR9)

1. Provides updated sensor codes for:
 - a. ML2 % volumetric (MXM, MXO), corrected valid reading range.
 - b. Updated Tensiometer (SWT) application notes wire colours.

Ls2Win 1.0 (SR8)

1. Provides new and updated sensor code for:
 - a. SM150 Soil Moisture Sensor
 - b. RG2 Rain Gauge, updated application notes wire colours.

Ls2Win 1.0 SR8 was not released outside of Delta-T Devices.

1. Ls2Win 1.0 (SR7) Provides sensor codes for:
 - a. BF5 Sunshine Sensor
 - b. BS5 Barometric Pressure Sensor.

Ls2Win 1.0 (SR6)

1. Provides sensor codes for the SM300 Soil Moisture Sensor.
2. Resolves Windows Vista and Windows 7 issues. These include:
 - a. Installing for All Users
 - b. Default location of saved DL2 Control Panel files (*.dl2) changed to All Users Application Data.
3. Allows serial port number greater than 9. Port names need to be typed into port selection box.
4. Setup no longer prompts for serial number.

Ls2Win 1.0 (SR5)

1. Additional sensor codes for the SPN1 Sunshine Pyranometer.
2. Dataset Import Wizard is provided separately on the Delta-T Software and Manuals CD, and not installed by the LS2Win installation program.

Ls2Win 1.0 (SR4)

1. Additional sensor codes for the SM200 soil moisture sensor.
2. Allows datasets to be saved from a program which contains an illegal file name character (i.e. one of /:*?"<|>). In earlier versions, clicking Retrieve in the Datasets tab of DL2 Control Panel failed to pop up the Save As dialog and it was impossible to save a dataset. SR4 corrects this by replacing illegal filename characters with '_'.

Ls2Win 1.0 (SR3)

1. Additional sensor codes for the following sensor types: PR2 Profile Probe, AN4 Anemometer, BF3 Sunshine Sensor and RG2 Rain Gauge.