Operation Manual

Application Software

of

OptoLeaf Measurement Instrument D-Meter RYO-470M

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Index

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Outline

This manual provides explanations of the preparation and activation of application software, moving measurement data from D-Meter RYO-470M to a PC, and deletion of all measurement data.

Preparation

⚠️ **Read the Readme file in the downloaded folder before you use the application software. The operations explained in this manual must be conducted only after the instructions in the file are followed and executed.**

Moving the Application Software

This application does not require installation and does not automatically appear in the Start menu. Copy or move the application software (D-Meter.exe) in the downloaded folder to the appropriate location, such as a local disk or the desktop.
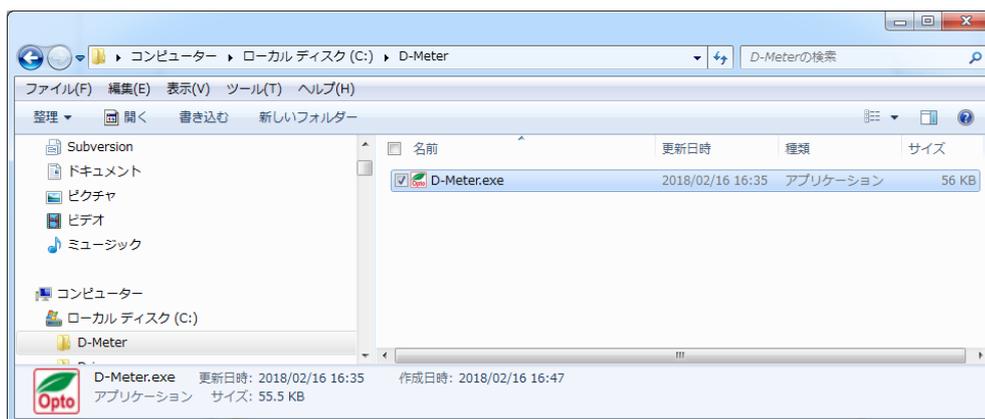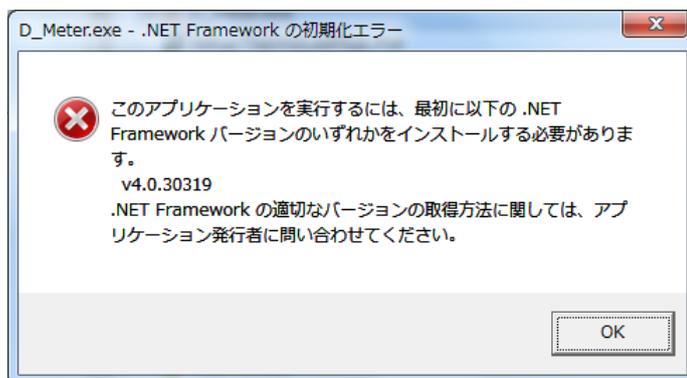

Fig. 1: File copied to the C:¥D-Meter folder (example)

Checking the Operation of the Application Software

Double-click the [D-Meter.exe] file.

If the conditions for operation are not satisfied, an error message is displayed (Fig. 2).

Microsoft .NET Framework 4.6.1 may not have been successfully installed. Try reinstallation.

Fig. 2: Error message

How to Operate

1. Activation

1) Power off D-Meter and connect it to a PC.
When a USB cable is connected, D-Meter automatically turns on and `USB → PC` is displayed on D-Meter to indicate that it is ready for communication. When the USB cable is disconnected, D-Meter automatically turns off.

2) Double-click the [D-Meter.exe] file. If it is successfully activated, the [Menu] screen is displayed as in Section 2 below.

If an error message is displayed (Fig. 3), the following reasons are possible.

1) The USB cable is not correctly connected.

2) The USB cable was connected while the power to D-Meter is on.

In this case, reconnect the USB cable.

接続エラー

接続が確認できませんでした。
D-Meterの電源が入っていないことを確認し、
USBケーブルを差し込み直してください。

Connection failed.
Please make sure to turn off the D-Meter
and reconnect the USB cable.

OK

Fig. 3: Error message

2. Menu Screen

On this screen, click the button for the process you want to operate.

D-Meterアプリケーションソフト

データ読込み／Read

To read all measurement data stored in memory on D-Meter and save it as a file.

データ消去／Erase

To delete all measurement data stored in memory on D-Meter.

終了／Exit

To end the application software.
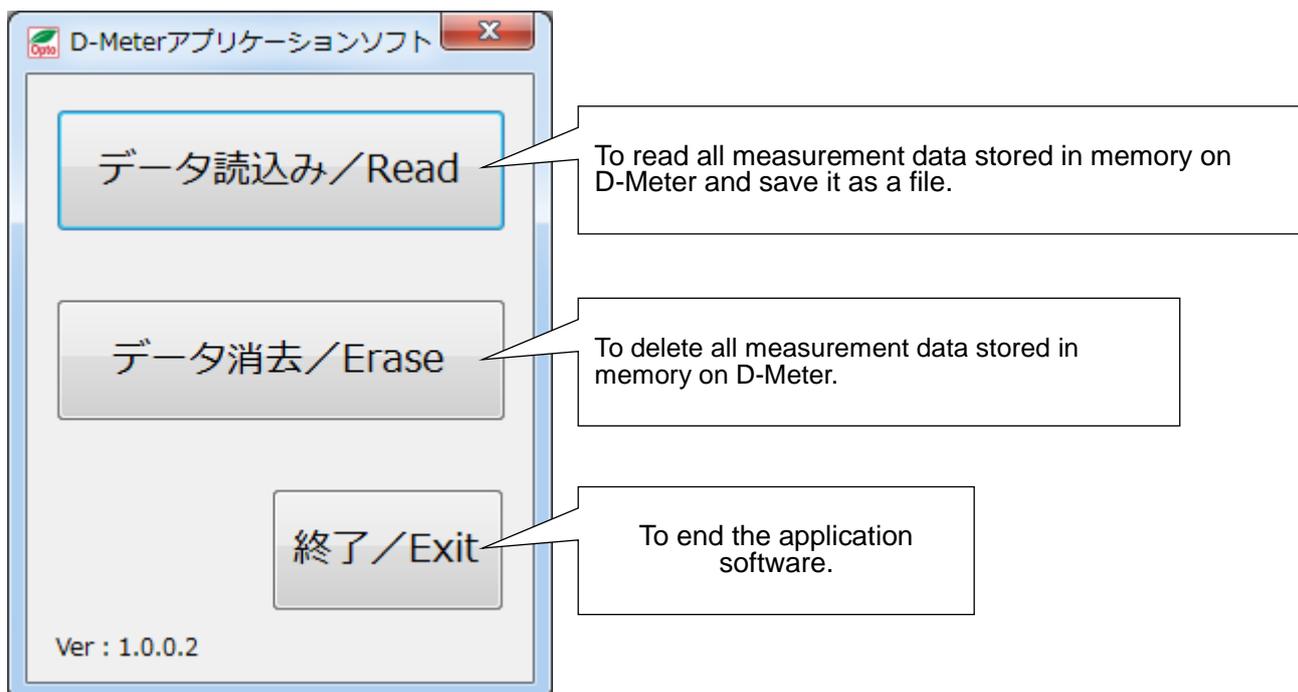
Ver : 1.0.0.2

Fig. 4: Menu screen

3. Reading Data

Click the [Read] button to display the [Reading Data] screen (Fig. 5).

Fig. 5: Reading Data screen

[Save in]: The location of the folder where the data file is stored is displayed. The default status is shown in Fig. 5. To change the folder, click the [Browse] button or enter the folder name directly in this field.

[Name]: The name of the file to be stored is displayed. The file name with year, month, day, and time is automatically displayed. You may enter a name you like directly in this field.

[Comment]: Enter a comment and it will be inserted into the file.

[Browse]: Click this button to show the explorer screen (Fig. 6). You may choose any folder you like.
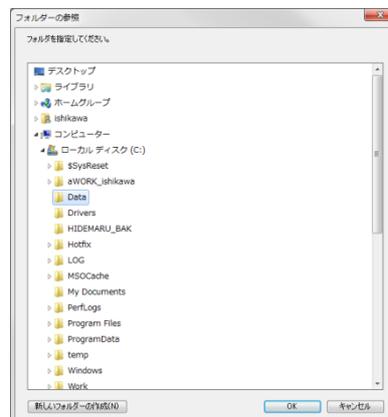
Fig. 6: Explorer screen

[Save]: Click this button and a confirmation message is displayed (Fig. 7) before completion of data saving.
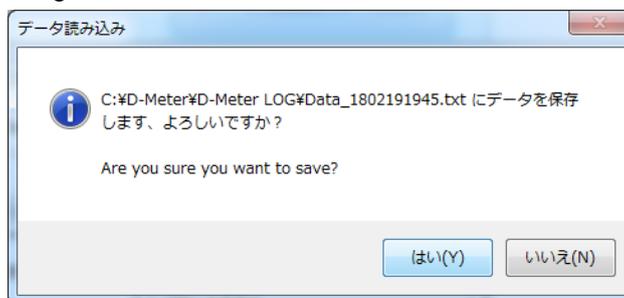

Fig. 7: Conformation message

Click [Yes] to start saving.
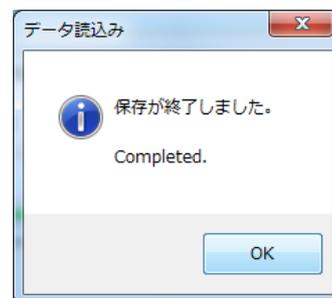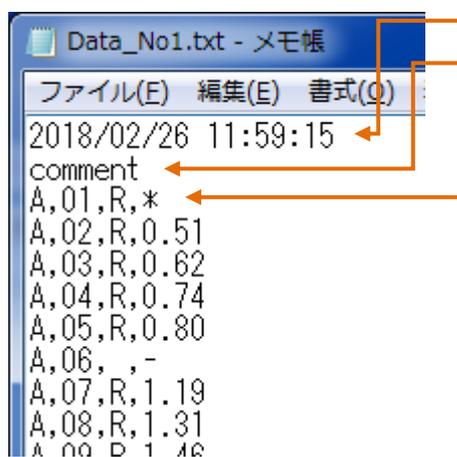Click [No] to return to the Menu.

Fig. 8: Completion message

This message (Fig. 8) is displayed when data saving is completed.

Example of Saved File

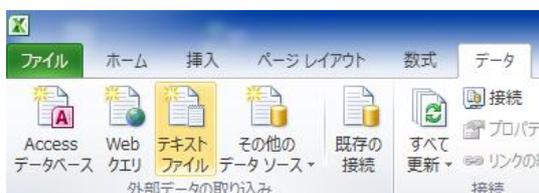The extension ".txt" is attached to the file name. The details of the file are explained below.

Fig. 9: Saved file

| 1st line: | Date and time when the file is saved |
| 2nd line: | Character string entered in the Comment field |

Measurements are displayed on the third to 992nd lines

3rd line:	Block (A)
	Number in the block (02)
	Type of a leaf: R, Y or O: (R)
∫	Measured value ("*" meaning error and "-" no data) (*)
	Blocks: from A to J
Through to the 992nd line	Numbers: from 1 to 99 for each block
	Therefore, 990 lines (measurement values) in total

If you want to use the measurement values in Excel or another format, the following procedure might be helpful:

Example: Microsoft Excel 2010

Fig 10: Importing a file

Activate Excel. Click the [Text File] icon in the [Data] tab and choose the [file (.txt)] you want to import. Click [Next], check [Comma], and choose [Complete].

Fig. 11: Imported data
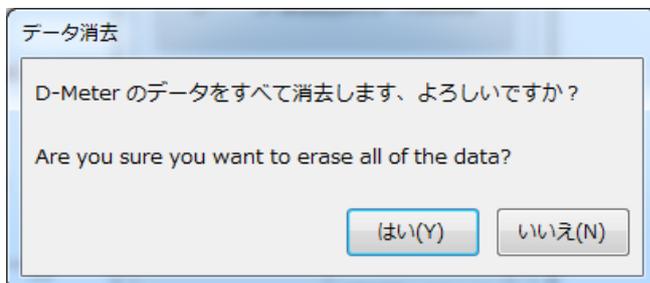
Choose the format you want to put the data in (existing or new worksheet), and the data is imported as shown in Fig. 11.

4. Deleting data

Click the [Erase] button and a conformation message is displayed (Fig. 12).

Click [Yes] to start data deletion.
Click [No] to return to the Menu.

Fig. 12: Confirmation message

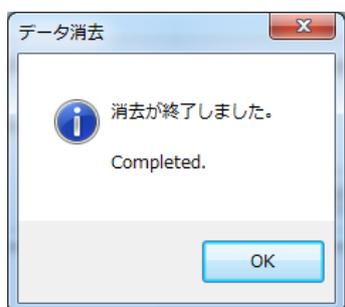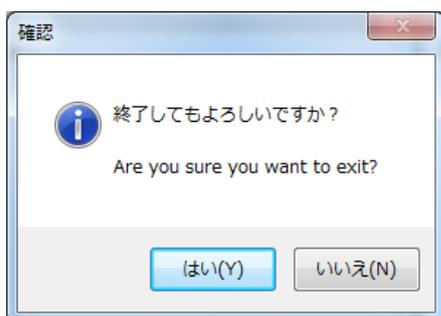When data deletion is completed, a message is displayed (Fig. 13).

Fig. 13: Completion message

5. Ending the Application Software

Click the [Exit] button and a confirmation message is displayed (Fig. 14).

Click [Yes] to end the application software.
Click [No] to return to the Menu.

Fig. 14: Confirmation message

After the application software is closed, disconnect the USB cable, and D-Meter automatically turns off. While it is connected to a PC by the USB cable, you cannot turn it off from the button on the D-Meter instrument.