

HIOKI RESISTANCE HiTESTER RM3542

Data Capture Application

I. Outline

This software enables the user to obtain measurement data from Model RM3542 RESISTANCE HiTESTER through the RS-232C interface. There are 3 functions, and each function can be applied to save measurement data directly into an Excel spreadsheet or as a CSV file.

1. Obtain data by pressing the Enter key on the PC.
2. Obtain data via the RM3542's External I/O TRIG button
3. Obtain data at specific time intervals (logging)

II. Initial settings after the RM3542 Data Capture Application has been successfully installed

1. First, set the measurement conditions (Ex. Range, Comparator settings) on Model RM3542 manually.
2. Adjust the interface settings on the RM3542 to "RS-232C" and "9600bps". Please refer to Chapter 9 in the instruction manual for Model RM3542 on how to adjust the interface settings.
3. On the PC, set the port used for the RS-232C interface. You can also make the settings using the Data Capture Application software by selecting [Settings] - [COM port] from the menu. Once made, the settings will be saved on your PC.

III. Functions

1. Data Monitoring

The Data Monitoring function is useful for visually checking that measurement data is being properly sent to the PC. Simply click on the "Monitor" button to display the current measurement result in the application window. Displayed data will not be saved. Press the "Stop" button to halt the operation.

2. Saving Measurement Data

To save measurement data, first designate the format in which you would like the output - either as a CSV text file or directly onto an Excel spreadsheet. Under [Data Save], click either CSV file or Excel.

(1) Saving as CSV text file

When saving as a CSV text file, enter a new file name, or add to an existing file by choosing the CSV file from your hard disk by clicking the BROWSE button. If choosing to save to an existing CSV file, new data will be recorded after the last entry of previously saved data, so old data will not be deleted.

(2) Saving to Excel

Saving to Excel will prompt the application to display the measurement results beginning from the selected cell on the open spreadsheet, or the first cell in a new spreadsheet. The Excel program will automatically be executed if it is not currently open.

3. Single Shot Capture (with Enter key)

Data can also be captured at will by pressing the PC's Enter key at the desired measurement result display.

Procedure:

- (1) Select "Capture by Enter Key" as the recording mode.
- (2) Click "Start" to begin measurement.
- (3) Click "Enter" on the keyboard to record the desired measurement result as displayed in the application window.
- (4) The measurement results will be recorded onto the designated CSV file or Excel spreadsheet.
- (5) To stop the procedure, click "STOP".

4. Capture Data via an External Trigger

Procedure:

- (1) Select "Capture by EXT I/O TRIG" as the recording mode.
- (2) Click "Start" to begin measurement.
- (3) Measured data can be loaded and saved into the designated CSV file or Excel spreadsheet whenever the TRIG terminal in the external I/O is activated.
- (4) To stop the procedure, click "STOP". "Please input trigger again to stop" will be displayed. Input the trigger again to stop recording completely.

5. Time interval measurement

Procedure:

- (1) Select "Interval Logging" as the recording mode.
- (2) Set the time interval and the total number of times to record.
- (3) The measurement results will be recorded onto the designated CSV file or Excel spreadsheet.
- (4) To stop the procedure, click "STOP".

IV. Disclaimer

This program is free software and technical support is not available. HIOKI E.E. CORPORATION disclaims any and all responsibility for any consequences arising out of use of this software.

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November 2009