



A Tektronix Company

KI-Tool and KI-Link

Version 2.04 Release Notes

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General Information

Supported models

This software is used with the following Keithley Instruments product models:

2100, 2110

Installation instructions

Installation instructions are available in the KI-Tool and Ki-Link Software manual. The manual can be downloaded from the [Keithley Instruments website](http://www.tek.com/keithley) (<http://www.tek.com/keithley>).

KI-Tool Version 2.04 Release

Overview

Version 2.04 is a maintenance release of the KI-Tool software. This release resolves one non-critical issue.

Non-critical fixes

PR58382 **Symptom:**

None (updated copyright information).

Resolution:

This issue has been corrected.

Known issues

PR47868 **Symptom:**

Moving or minimizing the KI-Tool window during data collection can cause data to be missed.

PR47876 **Symptom:**

If multiple devices are selected in the Readings Settings dialog, the selection will be forgotten the next time the dialog is opened.

PR47897 **Symptom:**

If a marker is visible in the Chart Record dialog and the "Drawing" button is clicked, the marker will become a permanent part of the chart image.

KI-Tool Version 2.03 Release

Overview

Version 2.03 is a maintenance release of the KI-Tool software. This release resolves thirteen non-critical issues and adds one enhancement.

Enhancements

PR46425 Enhancement:

Measurement records now include information about which DMM function was active when the record was created. Exported records also include this information in the header row of the CSV file.

Non-critical fixes

PR47869 Symptom:

The TEMP function includes an NTCT sensor option for the Model 2100. The Model 2100 does not support NTCT sensors, so selecting this option will cause a “Converting data error” message to be displayed.

Resolution:

This issue has been corrected.

PR47870 Symptom:

When an instrument is in TEMP mode with a 2-Wire transducer, the KI-Tool Device Settings dialog will show the transducer type as 4W RTD. This will not affect the operation of the instrument unless “Submit” is clicked while 4W RTD is selected.

Resolution:

This issue has been corrected.

PR47871 Symptom:

The Data Selection tool is unreliable when used with small values (1e-6 or smaller).

Resolution:

This issue has been corrected.

PR47872 Symptom:

If the data selection tool is used with data that has no 2ND measurement, clicking the “Search” button will cause the Value_2ND field to fill with the value 001000000.0000000.

Resolution:

This issue has been corrected.

PR47873 Symptom:

If a Model 2100 is recognized by KI-Tool, the DIODE and CONT function buttons will be disabled in the main window for all attached instruments.

Workaround:

DIODE and CONT modes can be selected via Device Settings.

Resolution:

This issue has been corrected.

PR47877 Symptom:

The application will hang if the "About" menu is opened while data collection is running.

Resolution:

This issue has been corrected.

PR47878 Symptom:

NTCT coefficients cannot be set in Device Settings.

Workaround:

The NTCT coefficients can be set from the front panel of the Model 2110 before starting KI-Tool. If the DMM is not powered off, it will retain the NTCT coefficients until they are changed again from the front panel.

Resolution:

This issue has been corrected. Note that this feature will only work when connected to a Model 2110 with firmware V2.0 or higher.

PR47880 Symptom:

SPRTD and USER coefficients are not loaded from the instrument when the Device Settings dialog is opened. To make a change to the coefficients, the entire set of values must be re-entered into the dialog.

Resolution:

This issue has been corrected.

PR47882 Symptom:

Setting the Model 2100 to "Fast 6 Digits" resolution results in the "Slow 5 Digits" resolution being applied. Setting "Fast 5 Digits" resolution results in the "Slow 4 Digits" resolution being applied. These two pairs of settings are indistinguishable in remote mode (see Table 4-1 in the Model 2100 User's Manual), so the issue is only cosmetic.

Resolution:

This issue has been corrected.

PR47883 Symptom:

Trying to enable TCOUPLE mode on the Model 2100 causes a "Not support TCOUPLE" error. The Model 2100 does not have a thermocouple mode, so this option should not be present in the Device Settings dialog.

Resolution:

This issue has been corrected.

PR47887 Symptom:

The View Record dialog shows measurements with lower precision than the main window.

Workaround:

To see the full precision of the measurements, export the record to CSV.

Resolution:

This issue has been corrected.

PR47889 Symptom:

Record 1, 2, ..., 10 and DBSFile 1, 2, ..., 10 reference the same files, but have different names.

Resolution:

This issue has been corrected.

PR47923 Symptom:

When single device mode is selected in the Reading Settings dialog and a save location has been chosen, switching to multiple device mode will cause the single mode save location to override one of the multiple device save locations.

Workaround:

Make sure to uncheck the single mode save box before switching to multiple device mode.

Resolution:

This issue has been corrected.

Known issues**PR47868 Symptom:**

Moving or minimizing the KI-Tool window during data collection can cause data to be missed.

PR47876 Symptom:

If multiple devices are selected in the Readings Settings dialog, the selection will be forgotten the next time the dialog is opened.

PR47897 Symptom:

If a marker is visible in the Chart Record dialog and the "Drawing" button is clicked, the marker will become a permanent part of the chart image.

PR50863 Symptom:

Attempting to enable autoranging with DCV ratio mode on a Model 2110 will cause KI-Tool to hang for approximately 10 seconds. Trying to close the KI-Tool window during the 10 second timeout will cause the program to crash.

Workaround:

When using KI-Tool to select DCV ratio mode for a Model 2110, make sure to select a fixed voltage range rather than AUTO.

KI-Tool Version 2.02 Release

Overview

Version 2.02 is a maintenance release of the KI-Tool software. This release resolves one critical issue and adds two enhancements.

Critical fixes

PR47866 Symptom:

A “No Device Connected” message is displayed when compatible instruments are connected to the system.

Resolution:

This issue has been corrected.

Enhancements

PR46415 Enhancement:

Timestamps now have a resolution of one millisecond.

PR47404 Enhancement:

A 2-Wire / 4-Wire transducer option has been added to the TEMP mode parameters.

Non-critical fixes

PR46419 Symptom:

The main window plots the newest data on the left-hand side of the graph, which is backwards when compared to most data loggers.

Resolution:

The main window now plots the newest data on the right-hand side of the graph.

Known issues

PR47868 Symptom:

Moving or minimizing the KI-Tool window during data collection can cause data to be missed.

PR47869 Symptom:

The TEMP function includes an NTCT sensor option for the Model 2100. The Model 2100 does not support NTCT sensors, so selecting this option will cause a “Converting data error” message to be displayed.

PR47870 Symptom:

When an instrument is in TEMP mode with a 2-Wire transducer, the KI-Tool Device Settings dialog will show the transducer type as 4W RTD. This will not affect the operation of the instrument unless “Submit” is clicked while 4W RTD is selected.

PR47871 Symptom:

The Data Selection tool is unreliable when used with small values (1e-6 or smaller).

PR47872 Symptom:

If the data selection tool is used with data that has no 2ND measurement, clicking the "Search" button will cause the Value_2ND field to fill with the value 001000000.0000000.

PR47873 Symptom:

If a Model 2100 is recognized by KI-Tool, the DIODE and CONT function buttons will be disabled in the main window for all attached instruments.

Workaround:

DIODE and CONT modes can be selected via Device Settings.

PR47876 Symptom:

If multiple devices are selected in the Readings Settings dialog, the selection will be forgotten the next time the dialog is opened.

PR47877 Symptom:

The application will hang if the "About" menu is opened while data collection is running.

PR47878 Symptom:

NTCT coefficients cannot be set in Device Settings.

Workaround:

The NTCT coefficients can be set from the front panel of the Model 2110 before starting KI-Tool. If the DMM is not powered off, it will retain the NTCT coefficients until they are changed again from the front panel.

PR47880 Symptom:

SPRTD and USER coefficients are not loaded from the instrument when the Device Settings dialog is opened. To make a change to the coefficients, the entire set of values must be re-entered into the dialog.

PR47882 Symptom:

Setting the Model 2100 to "Fast 6 Digits" resolution results in the "Slow 5 Digits" resolution being applied. Setting "Fast 5 Digits" resolution results in the "Slow 4 Digits" resolution being applied. These two pairs of settings are indistinguishable in remote mode (see Table 4-1 in the Model 2100 User's Manual), so the issue is only cosmetic.

PR47883 Symptom:

Trying to enable TCOUPLE mode on the Model 2100 causes a "Not support TCOUPLE" error. The Model 2100 does not have a thermocouple mode, so this option should not be present in the Device Settings dialog.

PR47887 Symptom:

The View Record dialog shows measurements with lower precision than the main window.

Workaround:

To see the full precision of the measurements, export the record to CSV.

PR47889 Symptom:

Record 1, 2, ..., 10 and DBSFile 1, 2, ..., 10 reference the same files, but have different names.

PR47897 Symptom:

If a marker is visible in the Chart Record dialog and the "Drawing" button is clicked, the marker will become a permanent part of the chart image.

PR47923 Symptom:

When single device mode is selected in the Reading Settings dialog and a save location has been chosen, switching to multiple device mode will cause the single mode save location to override one of the multiple device save locations.

Workaround:

Make sure to uncheck the single mode save box before switching to multiple device mode.

KI-Tool Version 2.0 Release

Overview

Version 2.0 of KI-Tool adds support for the Model 2110 DMM and resolves one critical issue.

Critical fixes

PR46426 **Symptom:**

The operation of the "HI Limiter" and "LO Limiter" in the Data Selection tool is reversed.

Resolution:

This issue has been corrected. "HI Limiter" now defines the maximum possible value in the filtered (search) data. "LO limiter" now defines the minimum possible value in the filtered data.

Enhancements

PR47867 **Enhancement:**

Support for the Model 2110 has been added.

KI-Link Version 2.04 Release

Overview

Version 2.04 is a maintenance release of the KI-Link software. This release resolves one critical and one non-critical issue.

Critical fixes

PR58379 Symptom:

When using KI-LINK with Microsoft Windows 8 (or newer), the following error is displayed at startup: "Component 'MSCOMCTL.OCX' or one of its' dependencies not correctly registered: a file is missing or invalid".

Resolution:

This issue has been corrected.

Non-critical fixes

PR58381 Symptom:

Connect to Device Search can take a very long time to complete (is searching TCP/IP devices).

Resolution:

This issue has been corrected.

KI-Link Version 2.03 Release

Overview

Version 2.03 is a maintenance release of the KI-Link software. This release corrects eleven non-critical issues.

Non-critical fixes

PR47906 Symptom:

Selecting TCOUPLE mode for the Model 2100 will cause an “Illegal parameter value” error. The Model 2100 does not have a thermocouple mode.

Resolution:

This issue has been corrected.

PR47907 Symptom:

Selecting NTCT sensor in TEMP mode will cause a “Converting data error” to appear. The Model 2100 does not support NTCT sensors.

Resolution:

The unsupported NTCT option has been removed.

PR47908 Symptom:

Thermocouple type C is missing from the list of thermocouples for the Model 2110.

Resolution:

This issue has been corrected.

PR47909 Symptom:

SPRTD and USER coefficients are not loaded from the instrument when the Device Settings dialog is opened. To make a change to the coefficients, the entire set of values must be re-entered into the dialog.

Resolution:

This issue has been corrected.

PR47910 Symptom:

NTCT coefficients cannot be set in Device Settings.

Workaround:

The NTCT coefficients can be set from the front panel of the Model 2110 before starting KI-Link. If the DMM is not powered off, it will retain the NTCT coefficients until they are changed again from the front panel.

Resolution:

This issue has been corrected. Note that this feature will only work when connected to a Model 2110 with firmware V2.0 or higher.

PR47913 Symptom:

When an instrument is in TEMP mode with a 2-Wire transducer, KI-Link will show the transducer type as 4W RTD. This will not affect the operation of the instrument unless "Submit" is clicked while 4W RTD is selected.

Resolution:

This issue has been corrected.

PR47915 Symptom:

Millisecond portion of log timestamps is always zero.

Resolution:

This issue has been corrected.

PR47916 Symptom:

When a Model 2110 is connected, the CAP mode will show 1 mF and 10 mF ranges even though they are not supported. Selecting either of these ranges will cause a -222, "Data out of range" error on the DMM.

Resolution:

This issue has been corrected.

PR47924 Symptom:

When making AC measurements with the slow filter (3 Hz bandwidth), a "Timeout expired before operation completed" error will be generated.

Workaround:

Use either the medium (20 Hz) or fast (200 Hz) setting so that the measurement is made before the software timeout expires.

Resolution:

This issue has been corrected. Note that Excel may briefly display "(Not Responding)" while waiting for the result.

PR50153 Symptom:

When saving a TEMP mode DMM setup to disk, custom coefficients are not saved.

Resolution:

This issue has been corrected.

PR50791 Symptom:

When saving a TEMP mode DMM setup to disk, the 2W / 4W transducer setting is not saved.

Resolution:

This issue has been corrected.

Known issues**PR47115 Symptom:**

A reference to the KI-Link add-in remains in the Microsoft® Excel® add-in list after KI-Link is uninstalled.

Workaround:

The reference can be removed by clicking on "Kilink2110" in the add-in list and answering "Yes" when Excel asks if the add-in should be deleted.

PR47116 Symptom:

KI-Link is not compatible with 64-bit versions of Microsoft® Office.

KI-Link Version 2.02 Release

Overview

Version 2.02 is a maintenance release of the KI-Link software. This release adds one enhancement.

Enhancements

PR47919 Enhancement:

A 2-Wire / 4-Wire transducer option has been added to the TEMP mode parameters.

Known issues

PR47115 Symptom:

A reference to the KI-Link add-in remains in the Microsoft® Excel® add-in list after KI-Link is uninstalled.

Workaround:

The reference can be removed by clicking on “Kilink2110” in the add-in list and answering “Yes” when Excel asks if the add-in should be deleted.

PR47116 Symptom:

KI-Link is not compatible with 64-bit versions of Microsoft® Office.

PR47906 Symptom:

Selecting TCOUPLE mode for the Model 2100 will cause an “Illegal parameter value” error. The Model 2100 does not have a thermocouple mode.

PR47907 Symptom:

Selecting NTCT sensor in TEMP mode will cause a “Converting data error” to appear. The Model 2100 does not support NTCT sensors.

PR47908 Symptom:

Thermocouple type C is missing from the list of thermocouples for the Model 2110.

PR47909 Symptom:

SPRTD and USER coefficients are not loaded from the instrument when the Device Settings dialog is opened. To make a change to the coefficients, the entire set of values must be re-entered into the dialog.

PR47910 Symptom:

NTCT coefficients cannot be set in Device Settings. The NTCT coefficients can be set from the front panel of the Model 2110 before starting KI-Link. If the DMM is not powered off, it will retain the NTCT coefficients until they are changed again from the front panel.

PR47913 Symptom:

When an instrument is in TEMP mode with a 2-Wire transducer, KI-Link will show the transducer type as 4W RTD. This will not affect the operation of the instrument unless "Submit" is clicked while 4W RTD is selected.

PR47915 Symptom:

Millisecond portion of log timestamps is always zero.

PR47916 Symptom:

When a Model 2110 is connected, the CAP mode will show 1 mF and 10 mF ranges even though they are not supported. Selecting either of these ranges will cause a -222, "Data out of range" error on the DMM.

PR47924 Symptom:

When making AC measurements with the slow filter (3 Hz bandwidth), a "Timeout expired before operation completed" error will be generated.

Workaround:

Use either the medium (20 Hz) or fast (200 Hz) setting so that the measurement is made before the software timeout expires.

KI-Link Version 2.0 Release

Overview

Version 2.0 of KI-Link adds support for the Model 2110 DMM and resolves two critical issues.

Critical fixes

PR46434 **Symptom:**

“Index out of bounds” runtime error is displayed when using the Connect to Device dialog.

Resolution:

This issue has been corrected.

PR46435 **Symptom:**

“Create Chart Error” occurs when creating a strip chart after deleting a previous strip chart worksheet.

Resolution:

This issue has been corrected.