

Version scheme: Major . Minor . Year . Date (MMDD)

## DMM Tool - Changelog

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### 2018

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#### 2.0.2018.0221

- **Bug Fix:** Save selection as .txt doesn't work, other file formats are not affected. Also the pre-configuration of the file type was wrong.
- **Bug Fix:** The error dialog had an error which caused to raise the Windows internal error handling instead (*DMM Tool.exe does not work anymore*).
- **Bug Fix:** P3440 BT4: „Close connection“ failed in some rare cases if the device was already powered down or out of range.
- **Optimized:** P3440: Fixed graphical glitch. Volt AC+DC overlapped on the LCD. Position corrected.
- **Optimized:** P3440: Fixed graphical glitch. Volt and Ampere are optimized for the device now (for example  $\mu\text{V}$  was displayed instead of mV – Anyway, the value was correct).

#### 2.0.2018.0116

- **CRITICAL Bug Fix:** Bug in serial communication fixed, which occurred by accident at implementing the P3440BT4 device (affects P2025, P3315 und P4075).
- **Optimized:** If no default device is already set or it wasn't provided using the command line the choose device dialog will open automatically.
- Changed copyright to „Copyright (C) PeakTech GmbH 2015 - 2018“.

### 2017

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#### 2.0.2017.1220

- **Bug Fix:** Choose device dialog wasn't able to differ between BT3 und BT4 devices, the 2025 was selected by default because of failure. Affects only 3440.
- **Inclusion:** Completely reworked the 3440 (LCD and protocol interpreter).
- **Optimized:** Created „Please wait“ Control for 3440 and other BT4 devices, because establishing a connection to the device may take some time. (#0000023)
- **Optimized:** Events for Connect and Disconnect in BLE Code added. (#0000023)
- **Optimized:** Extended communication-Log for error messages.

#### 2.0.2017.1212

- **Bug Fix:** 4390: Bug in temperature- und capacity measurement fixed. (#0000029)
- **Inclusion:** CC2540 Stack from Team Ansari included. (#0000023)

- **Inclusion:** 3440 BT4 included. (still needs some testing) (#0000023)
- **Change:** 3440 renamed to „3440 BT3“. (#0000023)

*Not published because there is still a lot of work to be done before.*

## 2.0.2017.1203

- **Bug Fix:** Fixed another problem with update search.
- **Optimized:** Graphical glitches corrected (occurs only on High-DPI Systems, which are pretty rare). Affects all dialogs.
- **Optimized:** Help files and CD Image reworked.

## 2.0.2017.1128

- **Bug Fix:** Bug in update search fixed (24h limit for update searches doesn't consider the locale time zone)
- **Change:** Changed the URLs for Update search, Feedback and Bug Reporter.
- **Localization:** Updated Bulgarian language.

## 2.0.2017.1025

- **New feature:** Added information about data privacy.
- **Optimized:** Corrected internal help files. Those included the covering page, which can't be displayed by the control. Removed to save space.
- **Optimized:** Internal file structure changed for the data privacy. Also modified the build process for that.
- **Optimized:** Compression of the internal resources changed from Deflate to LZMA (7-zip). Saves: 11MB --> 3MB = ↓73%.
- **Localization:** Updated Russian and Bulgarian languages.

## 2.0.2017.1015

- **Bug Fix:** Automatic trigger: The input box was set to 12h AM/PM on English systems by mistake (should be 24h because it is a time span, not a clock time). It worked anyway, just such kind of a graphic glitch.
- **Bug Fix:** Time range trigger: The input box was set to 24h on English systems by mistake (should be 12h AM/PM because it is a clock time, not a time span). It worked anyway, just such kind of a graphic glitch.
- **New feature:** In the choose device dialog it is now possible to define a default device which is selected by default each time the application starts. Stored in the registry (by user / HKCU).
- **New feature:** A search for updates will be done at the start of the application automatically (1x each 24h) and the user gets informed if a new version is available.

- **New feature:** Using the Connection menu it is now possible to create pre-configured shortcuts to the application so you don't have to choose the device and connection each time you start the application.
- **Optimized:** Online services: Added IsInVM, Install GUID and Language to the system information.
- **Optimized:** Reworked help files and screenshots.
- **Localization:** Updated Russian translation.
- **Localization:** Fixed a mistranslation in English translation.

## 2.0.2017.1006

- **Production Fix:** 4000 – Updated driver version (the old one does not work on Windows 10).
- **Bug Fix:** 4075 – Temperature OL / UL was not detected.
- **Bug Fix:** OL in chart scale was badly displayed in the legend.
- **Bug Fix:** 4075 – OL wasn't shown in diode test.
- **Bug Fix:** 4075 – rarely there were graphic glitches in the LCD.
- **Bug Fix:** AutoSave was named as ENVTool by mistake.
- **Optimized:** File – Save is disabled if there are no log entries to save.
- **Optimized:** Fixed a problem with triggers and rising / falling edge detection. Added a Hysteresis (5%) so small changes do not execute the trigger in an unwanted way anymore.
- **New feature:** Copy the values into the clipboard (using [CTRL]+[C] or using a right-click on the log). Optimized for Excel & co. Can also be found in the file menu..
- **New feature:** Min/Max trigger can now be inverted so only values outside of a given range will be logged, instead of that one's inside of it.
- **Localization:** Added some new strings for the new features.

## 2.0.2017.0823

- **Localization:** Fixed a translation mistake in English language.

## 2.0.2017.0821

- **Localization:** Completed Spanish language.
- **Localization:** Completed Russian language.
- **New feature:** Feedback and bug report dialogs added and checked. Now officially.

## 2.0.2017.0802

- **Localization:** Corrected Spanish translation and added it.

*Only an internal version for translators.*

## 2.0.2017.0724

- **Localization:** Fixed and added Dutch language.
- **Optimized:** Updated the class for the language file processing.
- **Bug Fix:** (Source) Fixed a bug in the solution map (wrong settings).
- **Optimized:** Updated ReadMe files on the CD Images (any comments?).
- **New feature:** Added LocEdit to the CD image.

## 2.0.2017.0202

- **Bug Fix:** 2025 New: Fixed filename of the driver.
- **Bug Fix:** Setup and Autorun fixed because of changed copyright. Oops. I trapped into my own security routine which protects the application against unauthorized changes. At least I can say: It works ^^'
- **New feature:** Feedback and bug report dialogs added and verified (now also in release builds). Still by now using a private – non official – server.
- **New feature:** Simulator is also available in release builds now, as requested. Release versions use realistic sample rates (2/s) instead of the debug version (20/s).
- **Optimized:** 4075 New: Updated device driver on the CD image and added a troubleshooting directory with the old driver version and its installation instructions for older devices.
- **Optimized:** Help files (.pdf) added to the CD image and modified (new date, new address) and integrated into the software. Title and authors are now set in the help file also (PeakTech, Thomas Baumann, Ken Ehrig).
- **Optimized:** New features like disable standby, auto save and feedback are added in the help file.
- **Optimized:** Optical markup of the ReadMe files on the CD Image.

## 2.0.2017.0124

- **Bug Fix:** Min / Max / Average and chart scale are back working. These had problems with very low measured values (problem because of different decimal sign , and .).
- **Bug Fix:** Fixed a bug in network server and client.
- **Bug Fix:** 2025 new: Fixed a bug in negative/positive detection.
- **Optimized:** 4075: Remote control and device check disabled if it will be used as network client (the old server does not supports it).
- Changed copyright to „Copyright (C) PeakTech GmbH 2015 - 2017“.

## 2016

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### 2.0.2016.1129

- **Optimized:** Prepared the internal structure to use a new data store.

- **Optimized:** Script to create Branches and CD images added.
- **Optimized:** Added more system details to the error dialog and checked them (Linux, MacOS via Mono and CrossOver / Wine).
- **Optimized:** Icon of the autorun.exe and CD changed (universal for all products).
- **Bug Fix:** Checked setup and autorun for errors and fixed them. Basically they were caused by the creation of the ENV Tool and the cross-links.
- **Localization:** Language files are now universal (DMM / ENV Tool). The application sets the name at runtime (required for ENV Tool).

## 2.0.2016.0923

- **Localization:** Language files are now universal (DMM / ENV Tool). The application sets the name at runtime (required for ENV Tool).
- **Optimized:** A lot of optimizations in the documentation and language files (still work to do).

*Not published because there is still a lot of work to be done before.*

## 2.0.2016.0919

- **Bug Fix:** Temperature (°C, °F) will not be handled by the formatting routine anymore (1234°C -> 1,234k°C).
- **New feature:** As soon as a connection is established the software disables the standby mode of the operating system (would be suboptimal for long term measurements).
- **New feature:** (Debug only for now): Feedback and bug report dialogs added and checked. At the moment using a private – non official – web server.
- **New feature:** (Debug only): Added a „Do not push!“ buttons in File menu which crashes the application (to test the error dialog).
- **Optimized:** Lot of optimizations in the documentation and the language files (not completely finished yet).
- **Optimized:** Continued to optimize file and class structure.

*Not published because there is still a lot of work to do (language files for example).*

## 2.0.2016.0721

- **Bug Fix:** 4075 now also work using any non-network connection again. Just a small bug is left: Connecting using the command line does not work, yet (no data received). Because this is a feature which is not widely used it should not make a big sense, but will be fixed later.
- **Optimized:** Serial class (also affects (virtual) COM Ports and BT) reworked.
- **Optimized:** Opening the menu „Connection – Connect“ is now much faster than before (COM ports will be detected and collected asynchronously at application start. This is a massive speed up if there are many COM ports (e. g. because of Bluetooth)).

- **Bug Fix:** Clicking on the chart (detail view) will not raise an exception if there was no data collected yet (reported by Frank Lamprecht).

## 2.0.2016.0223

- **Optimized:** Bigger text labels because some languages required some more space.
- **Localization:** Added new language files

## 2015

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### 2.0.2015.1116

- **Production Fix:** 2025 (new models) will be detected (using Connection – Connect there is an entry USB for older devices along with the serial port for the newer models). Maybe I should rename the USB into USB HID to don't confuse the customers?!
- **Optimized:** Various optimizations and bug fixes in the 3440 Implementation
- **New feature:** Added auto-save feature (data will be saved any ca. 10sec. on the desktop).
- **Bug Fix:** The USB HID implementation is now tolerant for errors (the software does not crash anymore if there might was an erroneous packet received).

### 2.0.2015.0907 ?

- **Bug Fix:** ????: Fixed negative sign in LCD.
- **Optimized:** Modified data store so it can hold up to 4 samples at once.
- **Optimized:** Added operating system and program version to the error dialog.

*I'm not sure when this version was compiled exactly; therefore the version number is not guaranteed to be correct.*

### 2.0.2015.0731

- **Bug Fix:** Problems (Frequency) with 4000 fixed.
- **Bug Fix:** Encoding Problem ( $\Omega$  sign) in .txt und .csv files fixed.
- **Inclusion:** (Debug only) 3440 added partially, does not work in any case yet.
- **Optimized:** Optimized unknown data dialog.
- **New feature:** Added context menu to LCD.
- **New feature:** Changed log and data store so for a device which sends 2 samples at once they can be displayed and saved both.
- **Optimized:** Various optimizations and structure changes inside the LcdBase class.

### 2.0.2015.0720

- **Inclusion:** Added 4000, only rarely checked yet.

### 2.0.2015.0717

- **Inclusion:** First steps for 3440 are made, debug version only.

- **Inclusion:** Added 4075 (almost done).
- **Inclusion:** Added 4000, test runs still required.
- **Optimized:** Internal resources are now compressed (help files and fonts).
- **Optimized:** Modified help files and added new UI for it.
- **New feature:** Added debug windows. Can be opened by pressing [CTRL] + [L] (Communication Log, unmodified data from the device) and [CTRL] + [P] (Protocol view). Only for debug versions.
- **Bug Fix:** Altered the CD Layout and fixed some mistakes on it.
- **New feature:** Added autorun to the CD Image.
- **Optimized:** Added the legend to the screenshots from the chart.

## 2.0.2015.0611

- **Inclusion:** Optimized and added the new help files.

*This version was only released as release version because I was working on the debug windows, so this version was not usable at this time.*

## 2.0.2015.0517

- **Bug Fix:** ... or better workaround. LCD Font does not work under Windows 98 ... 2000, XP and newer only. Fallback to system font. Basically a real bug fix is not required because this operating systems are abandoned and not officially supported.
- **Inclusion:** Continued work on 4075 (almost done)
- **Localization:** A few strings are added.
- **New feature:** Added help window, but disabled, because there are no help files yet.
- **New feature:** Created setup program for the CD Image.
- **New feature:** Created CD Image Layout and ReadMe's.
- **New feature:** Pause feature and its warning message added.
- **Optimized:** Various small optimizing's and fixed bugs.

## 2.0.2015.0512

- **Inclusion:** Continued 4075 inclusion (still work to do).
- Prepared for Pro version.

## 2.0.2015.0218

- **Bug Fix:** Fixed a bug which only occurred in the release version (compiler optimizer had done its job a bit too good, some interops was incorrect).
- **Inclusion:** 4075 is now completely added, some test runs required.
- **Localization:** Added Russian language.
- **Bug Fix:** Fixed a bug in the simulator.

- **Inclusion:** Created and added dialogs for the 4075 (remote control and log data only).

## 2.0.2015.0212

- **Inclusion:** Added support for the log files generated by the 4075.
- **Optimized:** Added new dialog symbols.

## 2.0.2015.0123 ?

- **Optimized:** Support for external language files added (primary for translators)
- **Inclusion:** Added 4075 (remote control only).

*I'm not sure when this version was compiled exactly; therefore the version number is not guaranteed to be correct.*

## 2.0.2015.0107

- **Inclusion:** 3430 added and verified.
- **Optimized:** Disabling trigger is now more user friendly.
- **Bug Fix:** Mysterious bug fixed in release version (checked, works now. Source of the bug still not clear).
- **Optimized:** Connection error message provides more details now.
- **Localization:** Localization completed.

## 2014

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### 2.0.2014.1115

- **New feature:** Started to develop a http server for the DMM Tool, so non-DMM Tool clients (like mobile phones, tablets, ...) can connect to it. Not finished yet.
- **Inclusion:** Support for 3415 added.
- **Bug Fix:** Graphic glitch fixed in LCD implementation of 4390.

### 2.0.2014.0910

- **Inclusion:** Support for 4090 added.
- **Inclusion:** Support for 4390 added.
- **Bug Fix:** LCD Fallback Problem fixed if there was no LCD created for this device.
- **Bug Fix:** Problem fixed which may have occurred if the user interrupts the connection to the device.
- **New feature:** Prepared the calculation and display of the device tolerance.
- **Optimized:** Modified the simulator (customizable Maximum-Wert, correct use of mV/V).
- **Optimized:** Changed the precision of the legend to 0.1 instead of 1.
- **Inclusion:** 2025 and 3315 successfully tested.



## 2.0.2014.0730

*Sadly no data for this version is available.*

## 2.0.2014.0710

*Sadly no data for this version is available.*

## 2.0.2014.0707

- **Optimized:** Added new icons.

## 2.0.2014.0629

- **Optimized:** The application is now completely „DPI-Aware“.
- **Optimized:** Added device images in higher resolution.
- **Inclusion:** PeakTech 3315 added and checked shortly (with limited USB support, only works if the original software establishes a connection to the device first. This is still Work-in-progress).
- **New feature:** Manual Trigger added as button.
- **New feature:** Added Logo / Branding (will get hidden in case of too low screen resolution).
- **Optimized:** Changed application title as well as the startup size.
- **Optimized:** Several small changes „under the hood“ (code clearance, stability on system errors like defective fonts).
- **Optimized:** Added dialog for error messages, if one should occur.
- **Optimized:** Added license to the debug warning.
- **Optimized:** Hyperlinks are set to the homepage, together with the query string „?utm\_campaign=DMMTOOL“.
- **Optimized:** Added progress display for loading files and connecting to a server (required for a very large amount of samples).
- **New feature:** The application is now pre-configurable using the command line (choose device, auto-connect, network client and -server, help about this topic with /?).

## 1.0.2014.0604

- **New feature:** Included the possibility to connect devices with a (virtual) serial port.
- **Inclusion:** Added support for 3315, but not checked (haven't the device yet)
- **Optimized:** Added header graphic in about dialog.

## 1.0.2014.0512

- **Optimized:** Some small optimizes „under the hood“ (performance, documentation and code clearance)
- **New feature:** Advanced menu added (for alarm and trigger).

- **New feature:** Alarm and various trigger features added.
- **Optimized:** Optical improvements in in all dialog windows (start Server, connect to server, alarm and trigger).
- **Optimized:** Some strings were not translated yet.
- **Optimized:** Added version scheme (Mayor.Minor.YYYY.MMDD (compile date))

## 1.0.2014.0505

*The first version which went to PeakTech, only for the 2025. These are the changes towards the original software:*

- **Optimized:** It is possible to record much more than 2000 log entries.
- **Optimized:** The LCD is designed as the original hardware one.
- **Optimized:** The history chart is completely re-designed and much better readable.
- **Optimized:** The scale will be chosen automatically and can be exported as image (either as file or to the clipboard). Also it is possible to set a field of view (any data, the last minute, the last 10 minutes, ...). Also a tooltip displays the date/time and the value for the position of the mouse pointer.
- **New feature:** Export to different file formats like .txt, .csv (for Excel and other similar programs), .xml (as DataTable incl. scheme information for other, maybe self-written applications).
- **Optimized:** Added display of average values (total, last minute).
- **New feature:** Date and time of the minimum and maximum values are displayed as tooltip.
- **New feature:** Automatically scrolling of the log window will be disabled if the user scrolls up (for example to read a specific value). It will be re-enabled if the log is scrolled down to the last entry.
- **New feature:** Added localization. The whole application is available in German and English, other languages can be added easily.
- **New feature:** Modular structure. It's easy to use the same software for different devices of the same type (multimeter).
- **New feature:** Network Support (DMM Tool Server and DMM Tool Client)

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