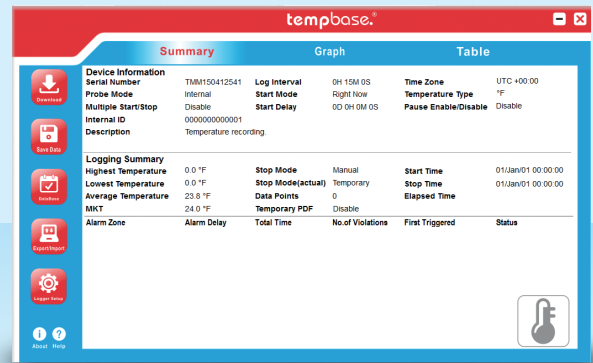




User Manual

→ For tempbase.®-D Data Management Software V1.2

Product: tempbase.®-D
Data Management Software V1.2



Summary

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01. Product overview

tempbase.®-D data management software for tempmate.®-M1 can upload every recorded data to computer, systematically analyze, collect and manage the data.

02. Installation environment

02.1 System requirements

CPU: min. PII 600 Mhz
 Hard disk: min. 100 Mb
 Memory: min. 512 Mb

02.2 Operation system

Windows XP (32bit, 64bit), Windows Vista (32bit, 64bit), Win7 (32bit, 64bit), Windows8(x86/x64)

03. Main functions

03.1 Main interface

The screenshot shows the tempbase.® software interface with a red title bar and a blue sidebar. The main content area is divided into three tabs: Summary, Graph, and Table. The Summary tab is active, displaying a table of device information and logging data. The sidebar contains several icons for functions like Download, Save Data, DataBase, Export/Import, and Logger Setup. At the bottom of the sidebar are 'About' and 'Help' icons. A temperature sensor icon is visible in the bottom right corner of the main content area.

| Device Information | | Log Interval | | Time Zone | |
|---------------------|------------------------|-------------------|------------------|----------------------|--------------------|
| Serial Number | TMM150412541 | Log Interval | 0H 15M 0S | Time Zone | UTC +00:00 |
| Probe Mode | Internal | Start Mode | Right Now | Temperature Type | °F |
| Multiple Start/Stop | Disable | Start Delay | 0D 0H 0M 0S | Pause Enable/Disable | Disable |
| Internal ID | 0000000000001 | | | | |
| Description | Temperature recording. | | | | |
| Logging Summary | | | | | |
| Highest Temperature | 0.0 °F | Stop Mode | Manual | Start Time | 01/Jan/01 00:00:00 |
| Lowest Temperature | 0.0 °F | Stop Mode(actual) | Temporary | Stop Time | 01/Jan/01 00:00:00 |
| Average Temperature | 23.8 °F | Data Points | 0 | Elapsed Time | |
| MKT | 24.0 °F | Temporary PDF | Disable | | |
| Alarm Zone | Alarm Delay | Total Time | No.of Violations | First Triggered | Status |
| | | | | | |



Tool buttons



Download recorded data from logger.



Manual save data: if current data is not saved into **tempbase.®-D**, press this button to save it. During the first data record, the system will automatically save. If new data are recorded, and the user inserts the **tempmate.®** logger to the computer once more, the user needs to save the data manually by clicking this button. It will display a dialog box to save the data.



Data base query interface, displays all saved data information.



Export data in the format of PDF, EXCEL or ELT.



tempmate.® datalogger parameter settings.



About **tempbase.®**



Help





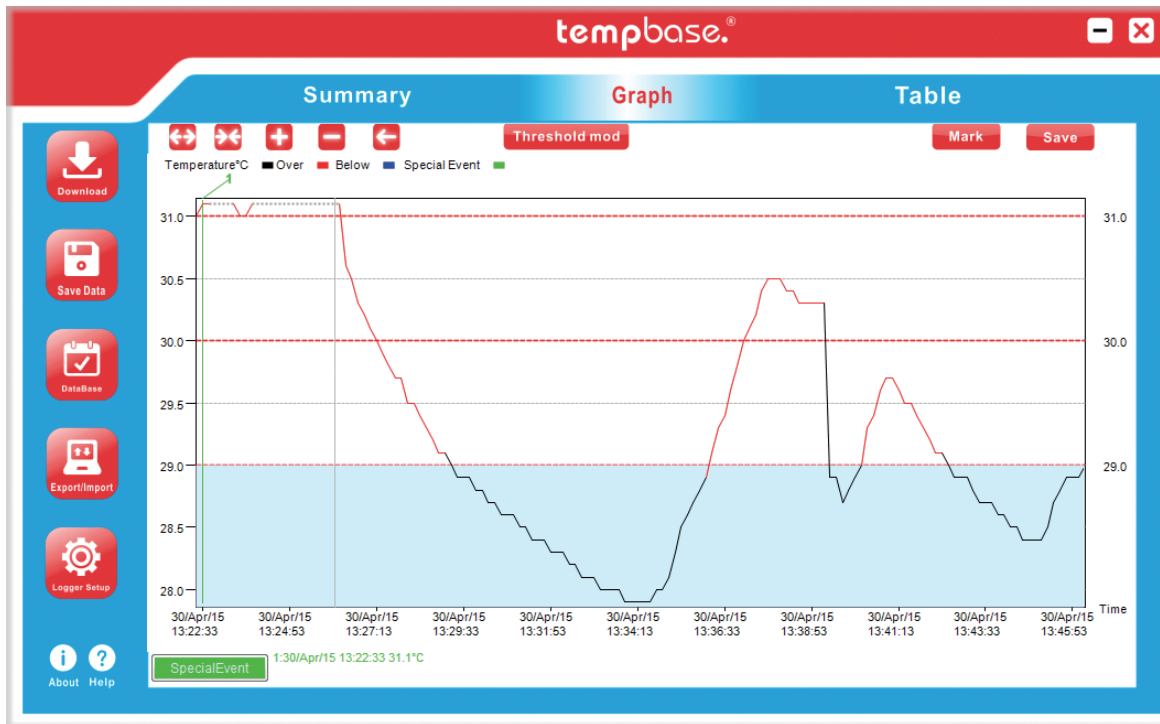
Parameter information

| | |
|-----------------------------|--|
| Device ID | tempmate.® Data logger ID |
| Log Interval | Record interval |
| Time Zone | Time Zone |
| Probe Mode | Temperature sensor type (internal or external) |
| Start Mode | Logger start mode (manual or timed) |
| Temperature Type | Temperature type (Celsius or Fahrenheit) |
| Multiple Start/Stop | Permit logger to be started or stopped for several times |
| Start Delay | Logger start delay time |
| Pause Enable/Disable | Permit/prohibit pause of logger |
| Travel ID | Travel ID number |
| Travel DSC | Travel description |
| Highest Temperature | Max. temperature |
| Stop mode (set) | Stop mode-setting value |
| Lowest Temperature | Min. temperature |
| Stop mode (actual) | Actual stop mode |
| Stop Time | Stop time |
| Average Temperature | Average temperature |
| Data points | The total recorded pieces |
| Elapsed time | The total recording time |
| MKT | Mean kinetic temperature |
| Temporary PDF | Permit to temporarily generate a PDF file after inserting the logger |
| Over | Upper alarm limit |
| Below | Lower alarm limit |
| Alarm delay | Alarm delay time |
| Total time | The accumulated alarm time |
| Alarm events | The times alarm occurs |
| First triggered | First alarm time |
| Status | Logger alarm status |





Data graph



Stretch curve horizontally



Swage curve horizontally



Curve zoom in



Curve zoom out



Return curve to the original size

Threshold mod

Modify alarm threshold dynamically

Mark

Marking function in the curve

Save

Save the marking in the curve

SpecialEvent

Marking event display function





Data graph

| ID | Time | T°C | ID | Time | T°C | ID | Time | T°C | ID | Time | T°C |
|----|--------------------|------|----|--------------------|------|----|--------------------|------|-----|--------------------|------|
| 1 | 30/Apr/15 13:22:23 | 31 | 26 | 30/Apr/15 13:26:33 | 30.5 | 51 | 30/Apr/15 13:30:43 | 28.6 | 76 | 30/Apr/15 13:34:53 | 28 |
| 2 | 30/Apr/15 13:22:33 | 31.1 | 27 | 30/Apr/15 13:26:43 | 30.3 | 52 | 30/Apr/15 13:30:53 | 28.6 | 77 | 30/Apr/15 13:35:03 | 28.1 |
| 3 | 30/Apr/15 13:22:43 | 31.1 | 28 | 30/Apr/15 13:26:53 | 30.2 | 53 | 30/Apr/15 13:31:03 | 28.5 | 78 | 30/Apr/15 13:35:13 | 28.3 |
| 4 | 30/Apr/15 13:22:53 | USB | 29 | 30/Apr/15 13:27:03 | 30.1 | 54 | 30/Apr/15 13:31:13 | 28.5 | 79 | 30/Apr/15 13:35:23 | 28.5 |
| 5 | 30/Apr/15 13:23:03 | USB | 30 | 30/Apr/15 13:27:13 | 30 | 55 | 30/Apr/15 13:31:23 | 28.4 | 80 | 30/Apr/15 13:35:33 | 28.6 |
| 6 | 30/Apr/15 13:23:13 | USB | 31 | 30/Apr/15 13:27:23 | 29.9 | 56 | 30/Apr/15 13:31:33 | 28.4 | 81 | 30/Apr/15 13:35:43 | 28.7 |
| 7 | 30/Apr/15 13:23:23 | USB | 32 | 30/Apr/15 13:27:33 | 29.8 | 57 | 30/Apr/15 13:31:43 | 28.4 | 82 | 30/Apr/15 13:35:53 | 28.8 |
| 8 | 30/Apr/15 13:23:33 | 31 | 33 | 30/Apr/15 13:27:43 | 29.7 | 58 | 30/Apr/15 13:31:53 | 28.3 | 83 | 30/Apr/15 13:36:03 | 28.9 |
| 9 | 30/Apr/15 13:23:43 | 31 | 34 | 30/Apr/15 13:27:53 | 29.7 | 59 | 30/Apr/15 13:32:03 | 28.3 | 84 | 30/Apr/15 13:36:13 | 29.1 |
| 10 | 30/Apr/15 13:23:53 | 31.1 | 35 | 30/Apr/15 13:28:03 | 29.5 | 60 | 30/Apr/15 13:32:13 | 28.3 | 85 | 30/Apr/15 13:36:23 | 29.3 |
| 11 | 30/Apr/15 13:24:03 | USB | 36 | 30/Apr/15 13:28:13 | 29.5 | 61 | 30/Apr/15 13:32:23 | 28.2 | 86 | 30/Apr/15 13:36:33 | 29.4 |
| 12 | 30/Apr/15 13:24:13 | USB | 37 | 30/Apr/15 13:28:23 | 29.4 | 62 | 30/Apr/15 13:32:33 | 28.2 | 87 | 30/Apr/15 13:36:43 | 29.6 |
| 13 | 30/Apr/15 13:24:23 | USB | 38 | 30/Apr/15 13:28:33 | 29.3 | 63 | 30/Apr/15 13:32:43 | 28.1 | 88 | 30/Apr/15 13:36:53 | 29.8 |
| 14 | 30/Apr/15 13:24:33 | USB | 39 | 30/Apr/15 13:28:43 | 29.2 | 64 | 30/Apr/15 13:32:53 | 28.1 | 89 | 30/Apr/15 13:37:03 | 30 |
| 15 | 30/Apr/15 13:24:43 | USB | 40 | 30/Apr/15 13:28:53 | 29.1 | 65 | 30/Apr/15 13:33:03 | 28.1 | 90 | 30/Apr/15 13:37:13 | 30.1 |
| 16 | 30/Apr/15 13:24:53 | USB | 41 | 30/Apr/15 13:29:03 | 29.1 | 66 | 30/Apr/15 13:33:13 | 28 | 91 | 30/Apr/15 13:37:23 | 30.2 |
| 17 | 30/Apr/15 13:25:03 | USB | 42 | 30/Apr/15 13:29:13 | 29 | 67 | 30/Apr/15 13:33:23 | 28 | 92 | 30/Apr/15 13:37:33 | 30.4 |
| 18 | 30/Apr/15 13:25:13 | USB | 43 | 30/Apr/15 13:29:23 | 28.9 | 68 | 30/Apr/15 13:33:33 | 28 | 93 | 30/Apr/15 13:37:43 | 30.5 |
| 19 | 30/Apr/15 13:25:23 | USB | 44 | 30/Apr/15 13:29:33 | 28.9 | 69 | 30/Apr/15 13:33:43 | 28 | 94 | 30/Apr/15 13:37:53 | 30.5 |
| 20 | 30/Apr/15 13:25:33 | USB | 45 | 30/Apr/15 13:29:43 | 28.9 | 70 | 30/Apr/15 13:33:53 | 27.9 | 95 | 30/Apr/15 13:38:03 | 30.5 |
| 21 | 30/Apr/15 13:25:43 | USB | 46 | 30/Apr/15 13:29:53 | 28.8 | 71 | 30/Apr/15 13:34:03 | 27.9 | 96 | 30/Apr/15 13:38:13 | 30.4 |
| 22 | 30/Apr/15 13:25:53 | USB | 47 | 30/Apr/15 13:30:03 | 28.8 | 72 | 30/Apr/15 13:34:13 | 27.9 | 97 | 30/Apr/15 13:38:23 | 30.4 |
| 23 | 30/Apr/15 13:26:03 | USB | 48 | 30/Apr/15 13:30:13 | 28.7 | 73 | 30/Apr/15 13:34:23 | 27.9 | 98 | 30/Apr/15 13:38:33 | 30.3 |
| 24 | 30/Apr/15 13:26:13 | USB | 49 | 30/Apr/15 13:30:23 | 28.7 | 74 | 30/Apr/15 13:34:33 | 27.9 | 99 | 30/Apr/15 13:38:43 | 30.3 |
| 25 | 30/Apr/15 13:26:23 | 30.6 | 50 | 30/Apr/15 13:30:33 | 28.6 | 75 | 30/Apr/15 13:34:43 | 28 | 100 | 30/Apr/15 13:38:53 | 30.3 |

- First Display first page data
- Back Display previous page data
- Next Display next page data
- End Display last page data
- GO Skip to the specific page





03.2 Data query page

Data graph

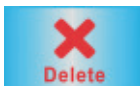
| Device | Data Sum | Highest | Lowest | Start Time | Stop Time | Status |
|----------------------------|----------|---------|--------|--------------------|--------------------|--------|
| TMM150400001_0000000000001 | 144 | 31.1°C | 27.9°C | 30/Apr/15 13:22:23 | 30/Apr/15 13:46:13 | OK |
| TMM150100003_0000000000001 | 20 | 23.4°C | 22.4°C | 22/Apr/15 16:45:14 | 22/Apr/15 16:48:24 | OK |
| TMM150400042_0000000000001 | 70 | 18.1°C | 18°C | 22/Apr/15 08:36:45 | 22/Apr/15 08:48:15 | OK |



Select all loggers



View the detailed information of the selected logger



Delete the data of selected logger



Display all loggers which have exceeded upper/lower limit



Display all recordings (including the normal temperature data and over temperature data)



Data management function

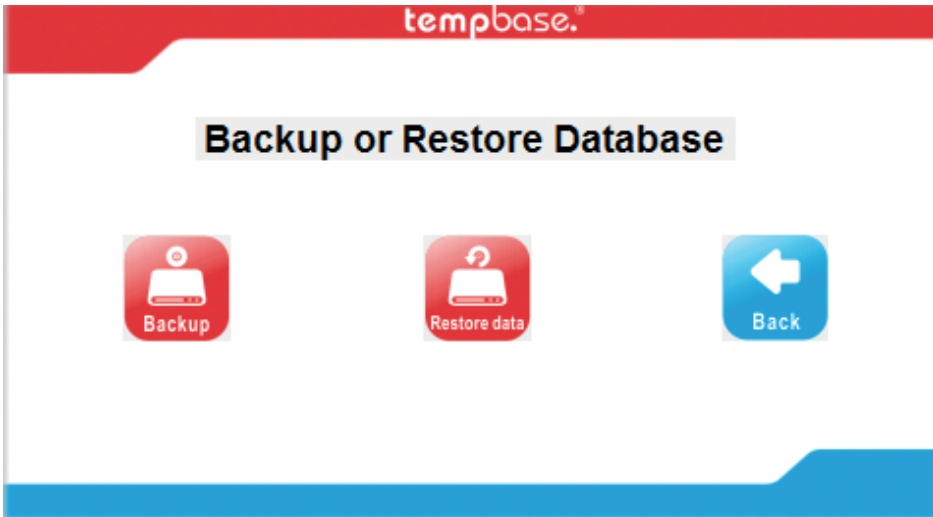


Back to home page



03.3 Data management page

Data graph



Data backup (save data in the format of ELT)



Data restore (Restore ELT file and read it by software)



Back to home page








04. Parameter settings page

| | |
|--------------------------------|---|
| 1. Serial number | Shows the serial number of the connected device |
| 2. Internal ID | Internal ID can be saved to the tempmate.®-M1 |
| 3. Log Interval | Adjust the time between the measuring points |
| 4. Log cycle | Calculates the maximum runtime until the storage is full |
| 5. Probe mode | Choose whether internal or external sensor should be used |
| 6. Password | Enable or disable password function (PDF can't be read out without password) |
| 7. Set password | Choose a password with 6 digits or characters |
| 8. Start mode | <p>"Right now" tempmate.®-M1 starts working after disconnecting</p> <p>"Manual" tempmate.®-M1 starts after pressing "Start" for 5 seconds</p> <p>"Timing" start date and time has to be set before, tempmate.®-M1 starts automatically when the logger reaches the start time. It can't be started before!</p> |
| 9. Start delay | Choose start delay (unlocked in manual start mode) |
| 10. Start time | Choose start time (unlocked in timing start mode) |
| 11. Description | Type your own description here |
| 12. Multiple Start/Stop | <p>Enable tempmate.®-M1 can be restarted after the device was stopped</p> <p>Disable tempmate.®-M1 can't be restarted without configuration after the device was stopped</p> |





| | |
|---|---|
| 13. Pause Enable/Disable | Enable or disable the "Pause" mode |
| 14. Temporary PDF | Enable ➡ PDF is automatically generated when tempmate.®-M1 is running and connected to a PC Disable ➡ tempmate.®-M1 doesn't create a PDF when it is running and connected to a PC |
| 15. Time Zone | Change the time zone (factory setting is UTC +00:00) |
| 16. Display Time | Setup the time the display is active |
| 17. Stop Mode | Manual ➡ ring memory, old data will be overwritten if memory is full Max capacity ➡ logger stops when the memory is full |
| 18. Temp. unit | Switch the temperature unit between "°C" and "°F" |
| 19. Battery | Shows the battery status of the current device |
| 20. Alarm | Choose the alarm mode between No Alarm ➡ No alarm setting, only temp. recording Single Alarm ➡ one "over" and "below" alarm point can be setup Multiple Alarm ➡ up to 3 "over" and 2 "under" alarm points can be setup |
| 21. Alarm Zones | Enable or disable the desired alarm zones (depends on the chosen alarm mode) |
| 22. Temperature | Choose the alarm temperature |
| 23. Alarm Mode | Choose between single or cumulative |
| 24. Alarm Delay | Choose the alarm delay in 10 sec. steps |
|  | Save parameters |
|  | Save parameter settings |
|  | Load parameter settings |
|  | Back to home page |
|  | Temperature adjustment |





05. Sensor adjustment page

tempbase.® [Close]

Sensor Adjustment

Sensor adjustment

In some cases you need to adjust the temperature sensor of the tempmate.-M1 logger, to ensure the highest accuracy at custom temperature points. Usually this is only necessary, if the logger is very old and there was a normal sensor drift because of time, or if you application temperature is near the min. or max. of the loggers temperature range (-30 ° C to +70° C/-22° F to 158° F).

Please note:

Use this feature only when serious deviations occurring!

The sensor offset can be done at your own risk and will effect voided warranty!

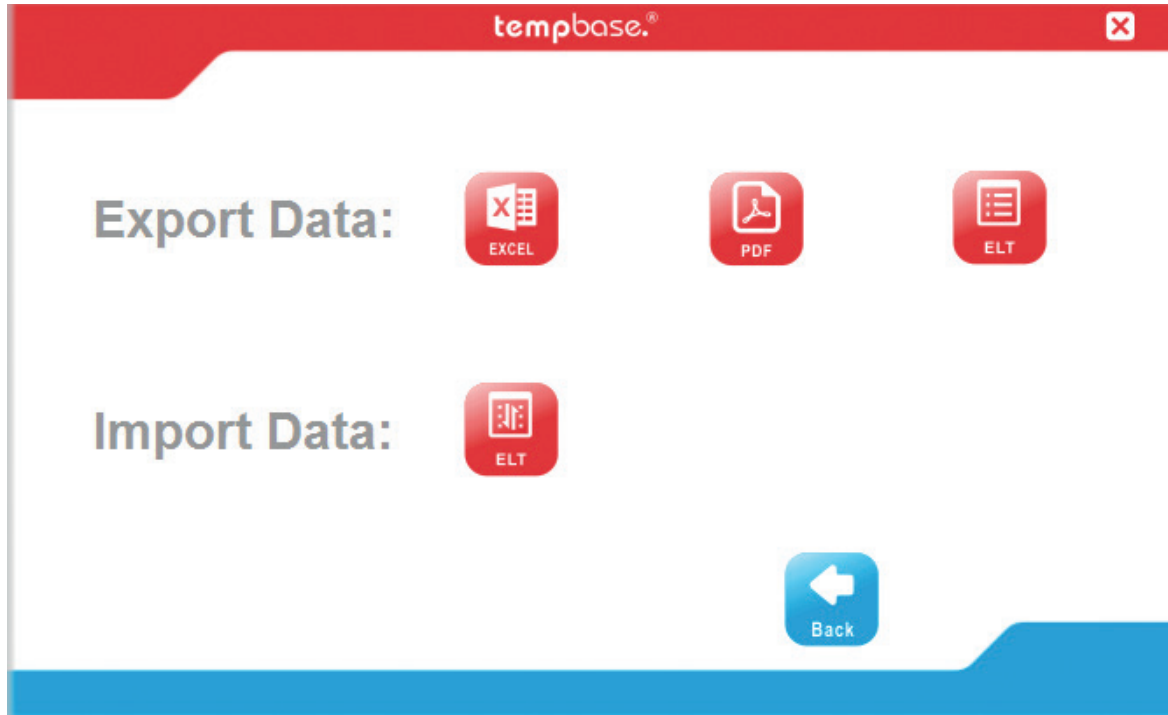
Set

Sensor adjustment

Temperature adjustment range: for Celsius $\pm 5.0^{\circ}\text{C}$; for Fahrenheit $\pm 20\text{F}$



06. Export data page



Export data in the format of EXCEL



Export data in the format of PDF



Export data in the format of ELT



Restore/insert ELT data to the software

