

## User Manual

➔ For tempbase.®-D v2 - Data Management Software

### tempbase.®-D v2 Data Management Software



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## For tempbase.®-D v2 Software

### 01. Product Overview

tempbase.®-D data management software for tempmate.®-M1 and tempmate.®-S1 v2 can program the logger, upload every recorded data to computer, systematically analyze or 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

#### Summary

The screenshot shows the 'tempbase.®' software interface for a 'tempmate.®-M1' device. The 'Summary' tab is active, displaying the following data:

Device Information		Device State		Probe Mode	
Serial Number	TMM150500218	Device State	Stop	Probe Mode	Internal
Temperature Type	°C	Log Interval	00H 00M 10S	Multiple Start/Stop	Enable
Start Mode	Start by Button	Start Delay	00D 00H 00M 00S	Pause Enable/Disable	Disable
Internal ID	0000001	Time Zone	UTC +02:00		
Description	Temperature recording.				

Logging Summary		Record Mode		Start Time	
Highest Temperature	26.5 °C	Record Mode	Stop when full	Start Time	04-May-16 07:40:20
Lowest Temperature	7.1 °C	Stop Mode	Stop by Button	Stop Time	04-May-16 09:22:10
Average Temperature	20.0 °C	Data Points	612	Elapsed Time	00D 01H 41M 50S
MKT	21.9 °C	Temporary Report	Enable	Alarm At	04-May-16 07:46:50

Alarm Zone	Alarm Delay	Total Time	No. of Violations	Alarm At	Status
H1:Over 25.0 °C	00D 00H 00M 00S(Cum)	00D 00H 23M 00S	1	04-May-16 07:46:50	Alarm
L1:Below 15.0 °C	00D 00H 00M 00S(Cum)	00D 00H 25M 50S	1	N/A	Alarm



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### ☛ Tool Buttons



Stop by software: Stopping of the logging operation is prevented and the logger can only be stopped by **tempbase.®-D** software.

\*only for S1 v2 or M1 v1.3



Even if the **tempmate.®-S1 v2** is stopped, the logger is still recording until the memory is full, or battery is low. The „**Backup-Log**“ can be generated by **tempbase.®-D** software (v2.0 or newer) and is not visible on the logger itself.

\*only for S1 v2



Download recorded data from **tempmate.®** 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



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### Parameter Information

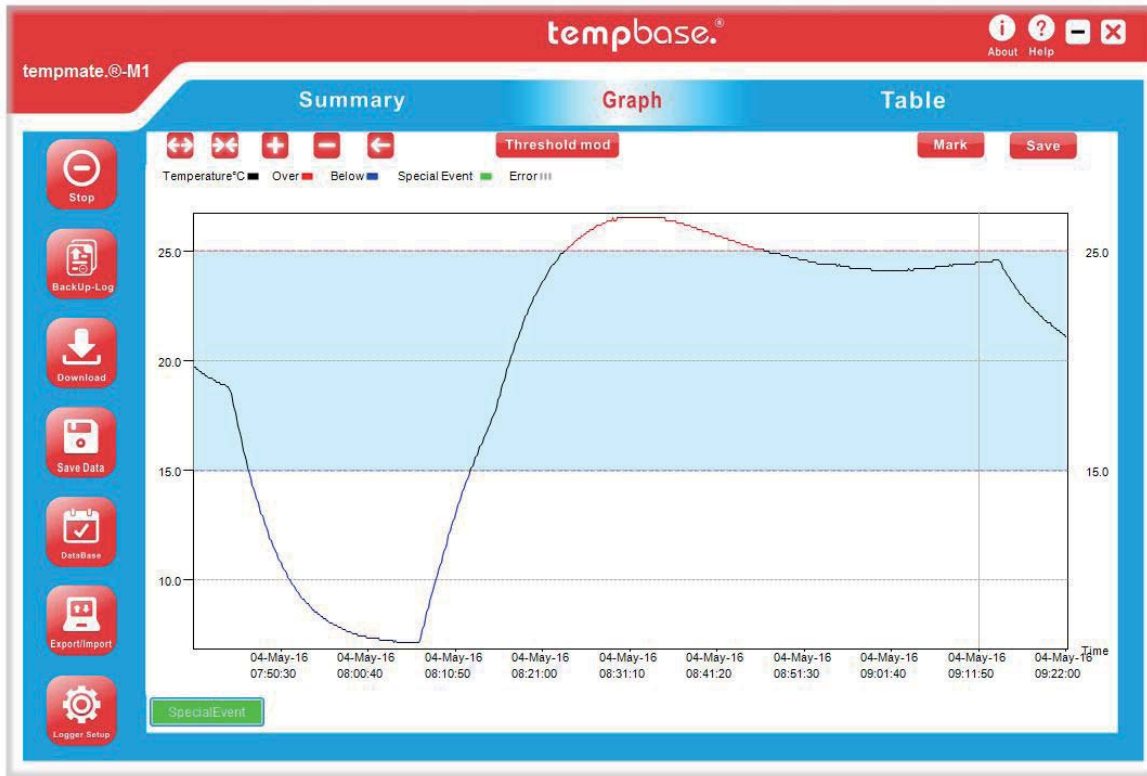
<b>Device ID</b>	tempmate.® Data logger ID
<b>Log Interval</b>	Record interval
<b>Time Zone</b>	Time Zone
<b>Probe Mode</b>	Temperature sensor type (internal or external)
<b>Start Mode</b>	Logger start mode (manual or timed)
<b>Temperature Type</b>	Temperature type (Celsius or Fahrenheit)
<b>Multiple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



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### 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



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### Table

ID	Time	T°C	ID	Time	T°C	ID	Time	T°C	ID	Time	T°C
1	04-May-16 07:40:20	19.7	26	04-May-16 07:44:30	18.7	51	04-May-16 07:48:40	12.5	76	04-May-16 07:52:50	9.2
2	04-May-16 07:40:30	19.7	27	04-May-16 07:44:40	18.5	52	04-May-16 07:48:50	12.3	77	04-May-16 07:53:00	9.1
3	04-May-16 07:40:40	19.6	28	04-May-16 07:44:50	18.2	53	04-May-16 07:49:00	12.1	78	04-May-16 07:53:10	9.1
4	04-May-16 07:40:50	19.6	29	04-May-16 07:45:00	17.9	54	04-May-16 07:49:10	11.9	79	04-May-16 07:53:20	9
5	04-May-16 07:41:00	19.5	30	04-May-16 07:45:10	17.6	55	04-May-16 07:49:20	11.8	80	04-May-16 07:53:30	8.9
6	04-May-16 07:41:10	19.5	31	04-May-16 07:45:20	17.3	56	04-May-16 07:49:30	11.6	81	04-May-16 07:53:40	8.9
7	04-May-16 07:41:20	19.4	32	04-May-16 07:45:30	17	57	04-May-16 07:49:40	11.5	82	04-May-16 07:53:50	8.8
8	04-May-16 07:41:30	19.4	33	04-May-16 07:45:40	16.7	58	04-May-16 07:49:50	11.3	83	04-May-16 07:54:00	8.7
9	04-May-16 07:41:40	19.3	34	04-May-16 07:45:50	16.5	59	04-May-16 07:50:00	11.2	84	04-May-16 07:54:10	8.6
10	04-May-16 07:41:50	19.3	35	04-May-16 07:46:00	16.2	60	04-May-16 07:50:10	11	85	04-May-16 07:54:20	8.6
11	04-May-16 07:42:00	19.2	36	04-May-16 07:46:10	15.9	61	04-May-16 07:50:20	10.9	86	04-May-16 07:54:30	8.5
12	04-May-16 07:42:10	19.2	37	04-May-16 07:46:20	15.6	62	04-May-16 07:50:30	10.8	87	04-May-16 07:54:40	8.5
13	04-May-16 07:42:20	19.2	38	04-May-16 07:46:30	15.4	63	04-May-16 07:50:40	10.6	88	04-May-16 07:54:50	8.4
14	04-May-16 07:42:30	19.2	39	04-May-16 07:46:40	15.1	64	04-May-16 07:50:50	10.5	89	04-May-16 07:55:00	8.4
15	04-May-16 07:42:40	19.1	40	04-May-16 07:46:50	14.8	65	04-May-16 07:51:00	10.4	90	04-May-16 07:55:10	8.3
16	04-May-16 07:42:50	19.1	41	04-May-16 07:47:00	14.6	66	04-May-16 07:51:10	10.3	91	04-May-16 07:55:20	8.3
17	04-May-16 07:43:00	19	42	04-May-16 07:47:10	14.3	67	04-May-16 07:51:20	10.1	92	04-May-16 07:55:30	8.2
18	04-May-16 07:43:10	19	43	04-May-16 07:47:20	14.1	68	04-May-16 07:51:30	10	93	04-May-16 07:55:40	8.2
19	04-May-16 07:43:20	19	44	04-May-16 07:47:30	13.9	69	04-May-16 07:51:40	9.9	94	04-May-16 07:55:50	8.1
20	04-May-16 07:43:30	18.9	45	04-May-16 07:47:40	13.7	70	04-May-16 07:51:50	9.8	95	04-May-16 07:56:00	8.1
21	04-May-16 07:43:40	18.9	46	04-May-16 07:47:50	13.5	71	04-May-16 07:52:00	9.7	96	04-May-16 07:56:10	8
22	04-May-16 07:43:50	18.9	47	04-May-16 07:48:00	13.2	72	04-May-16 07:52:10	9.6	97	04-May-16 07:56:20	8
23	04-May-16 07:44:00	18.9	48	04-May-16 07:48:10	13	73	04-May-16 07:52:20	9.5	98	04-May-16 07:56:30	8
24	04-May-16 07:44:10	18.8	49	04-May-16 07:48:20	12.9	74	04-May-16 07:52:30	9.4	99	04-May-16 07:56:40	7.9
25	04-May-16 07:44:20	18.8	50	04-May-16 07:48:30	12.7	75	04-May-16 07:52:40	9.3	100	04-May-16 07:56:50	7.9

- 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



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### 03.2 Data Query

#### Data Base

The screenshot shows the 'tempbase.®' Data Base interface. At the top, there are five icons: 'Select All', 'Show', 'Delete', 'Overtemperature Device', and 'All Device'. Below these is a table with the following data:

Device	Data Sum	Highest	Lowest	Start Time	Stop Time	Status
<input type="checkbox"/> S116040173-01_0000001	104	26.4°C	6.4°C	03-May-16 14:41:59	04-May-16 07:51:59	OK
<input type="checkbox"/> TMM150500218-0000001	612	26.5°C	7.1°C	04-May-16 07:40:20	04-May-16 09:22:10	Alarm

On the left side, there are two buttons: 'Backup/Restore' and 'Back'. At the bottom, there is a navigation bar with '1 / 1 2' and buttons for 'First', 'Back', 'Next', and 'End'.



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

#### Backup or Restore



Data backup (save data in the format of ELT)



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



Back to home page





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### 04. Parameter Setting






#### 4.1 tempmate.®-M1

- |                         |  |
|-------------------------|--|
| <b>1. Serial Number</b> | Shows the serial number of the connected device  |
| <b>2. Internal ID</b>   | Internal ID can be saved to the <b>tempmate.®-M1</b>   |
| <b>3. Log Interval</b>  | Adjust the time between the measuring points   |
| <b>4. Log Cycle</b>     | Calculates the maximum runtime until the storage is full (battery life excluded!)  |
| <b>5. Probe Mode</b>    | Choose whether internal or external sensor should be used  |
| <b>6. Password</b>      | Enable or disable password function<br>(PDF can't be read out without password)  |
| <b>7. Set Password</b>  | Choose a password with 6 digits or characters  |
| <b>8. Start Mode</b>    | Right now • <b>tempmate.®-M1</b> starts working after disconnecting<br>Start by Button • <b>tempmate.®-M1</b> starts after pressing "Start" for 5 seconds<br>Timing • Start date and time has to be set before, then <b>tempmate.®-M1</b> starts automatically when the start time is reached. It can't be started before! |
| <b>9. Start Delay</b>   | Choose start delay (unlocked in "Start by Button" mode)  |
| <b>10. Start Time</b>   | Choose start time (unlocked in "Timing" start mode)  |
| <b>11. Description</b>  | Type your own description here   |
| <b>12. Temp. Unit</b>   | Switch the temperature unit between "°C" and "°F"  |



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<b>13. Record Mode</b>	Select "Stop when full" or "Ring Buffer"
<b>14. Stop Mode</b>	Select "Stop by Button" or "Stop by Software"
<b>15. Time Zone</b>	Change the time zone (factory setting is UTC +00:00)
<b>16. Battery</b>	Shows the battery status of the current device
<b>17. Display Time</b>	Setup the time the display is active
<b>18. Probe Mode</b>	Choose whether internal or external sensor should be used
<b>19. Multiple Start/Stop</b>	Enable • <b>tempmate.®-M1</b> can be restarted after the device was stopped Disable • <b>tempmate.®-M1</b> can't be restarted without configuration after the device was stopped
<b>20. Pause</b>	Enable or disable the "Pause" mode
<b>21. Alarm</b>	Choose the alarm setting between: No Alarm • No alarm setting, only temp. recording Single Alarm • A single "over" and "below" alarm point can be set Multiple Alarm • Up to 3 "over" and 2 "under" alarm points can be set
<b>22. Alarm Zones</b>	Enable or disable the desired alarm zones (depends on the alarm setting)
<b>23. Temperature</b>	Choose the alarm temperature
<b>24. Alarm Mode</b>	Choose between single or cumulative
<b>25. Alarm Delay</b>	Choose the alarm delay
	Save setting to program the logger
	Save parameter settings
	Load parameter settings
	Back to home page
	Temperature adjustment



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## For tempbase.®-D v2 Software





### 4.2 tempmate.®-S1 v2

<b>1. Serial Number</b>	Shows the serial number of the connected device
<b>2. Internal ID</b>	Internal ID can be saved to the <b>tempmate.®-S1 v2</b>
<b>3. Log Interval</b>	Adjust the time between the measuring points
<b>4. Log Cycle</b>	Calculates the maximum runtime until the storage is full (battery life excluded!)
<b>5. Temporary Report</b>	Automatic report generation without stopping the logger
<b>6. Password</b>	Enable or disable password function for PDF and CSV (PDF or CSV can't be read out without password)
<b>7. Set Password</b>	Choose a password with 6 digits (alpha-numeric)
<b>8. Start Mode</b>	Right now • <b>tempmate.®-S1 v2</b> starts working after disconnecting Start by Button • <b>tempmate.®-S1 v2</b> starts after pressing "Start" for 5 seconds Timing • Start date and time has to be set before, then <b>tempmate.®-S1 v2</b> starts automatically when the start time is reached. It can't be started before!
<b>9. Start Delay</b>	Choose start delay (unlocked in "Start by Button" mode)
<b>10. Start Time</b>	Choose start time (unlocked in "Timing" start mode)
<b>11. Description</b>	Type your own description here
<b>12. Temp. Unit</b>	Switch the temperature unit between "°C" and "°F"



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<b>13. Record Mode</b>	“Stop when full” is mandatory for <b>tempmate.®-S1 v2</b>
<b>14. Stop Mode</b>	Select “Stop by Button” or “Stop by Software“
<b>15. Time Zone</b>	Change the time zone (factory setting is UTC +00:00)
<b>16. Battery</b>	Shows the battery status of the current device
<b>17. Alarm Setting</b>	Choose the alarm setting between: No Alarm • No alarm setting, only temperature recording Single Alarm • A single “over” and “below” alarm point can be set Multiple Alarm • Up to 3 “over” and 2 “under” alarm points can be set
<b>18. Alarm Zones</b>	Enable or disable the desired alarm zones (depends on the chosen alarm setting)
<b>19. Temperature</b>	Choose the alarm temperature
<b>20. Alarm Mode</b>	Choose between single or cumulative
<b>21. Alarm Delay</b>	Choose the alarm delay
	Save setting to program the logger
	Save parameter settings
	Load parameter settings
	Back to home page

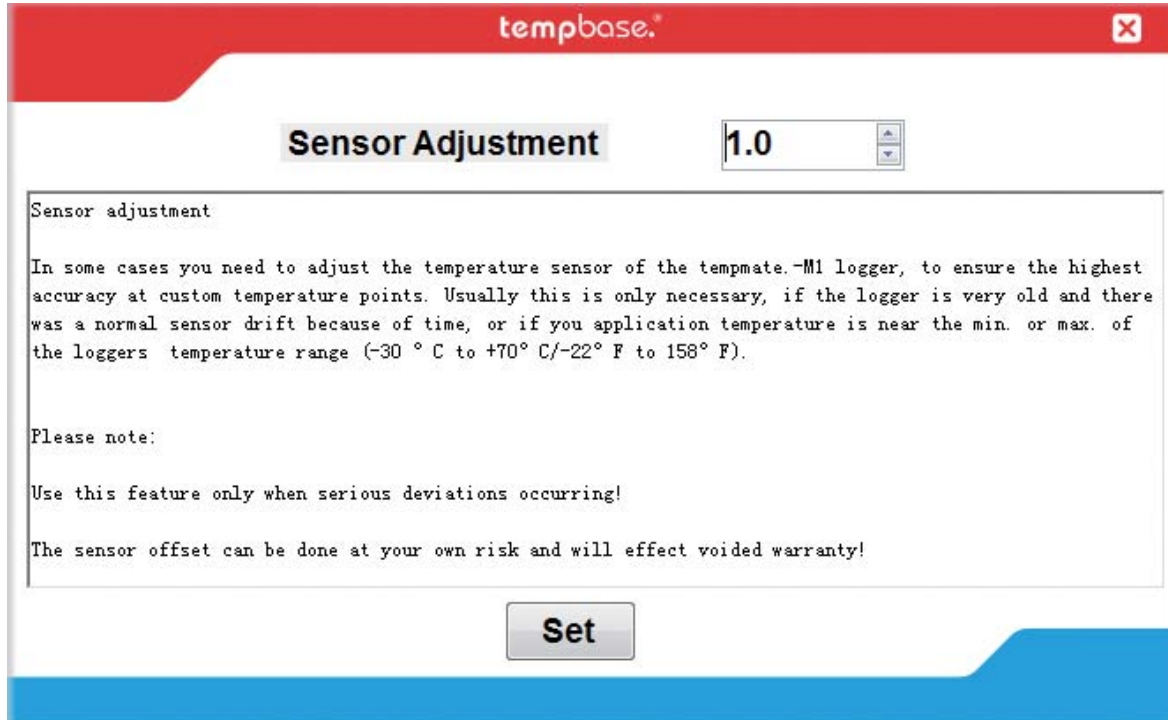


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### 05. 5. Sensor Adjustment

(only for tempmate.®-M1)



**Sensor adjustment**

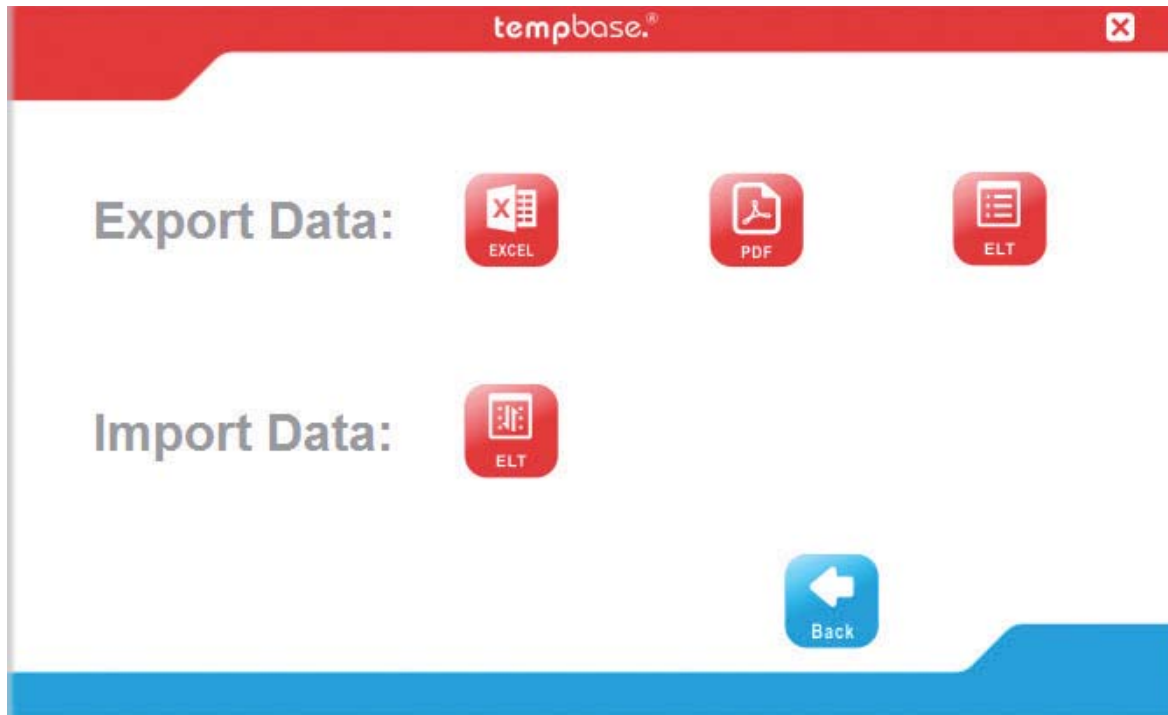
Temperature adjustment range: for Celsius  $\pm 5.0^{\circ}\text{C}$ ; for Fahrenheit  $\pm 20\text{F}$



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## For tempbase.®-D v2 Software

### 06. Export Data



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

