Temperature Datalogger

IP 54 Water Proof
USB Datalogger

Users Manual

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FEATURES & SPECIFICATIONS

Features

- Measure ℃/℉ Temperature
- Datalogging- 50,000 records
- Fast USB download
- Easy- to-Use PC software for parameter settings and data analysis
- Internal Temperature alarm

Specifications

Temperature

Type	Thermistor
Measurement Range	-40 to 85℃(-40~185℉)
Accuracy	±1.2℉(0.6℃) from -4 to 122℉(-20 to 50℃) ±1.8℉(1.0℃) all other ranges
Resolution	0.1℃

- Display : 3 digit LCD.
- LED status: red LED of Alarm, greed LED of Record.
- Sampling rate: 1 times/3 second.
- Battery : One 3.6V ½ AA lithium battery
- Battery Lift :1 year.
- External Power Supply: 5 VDC with 0.5A.
- Operating temperature and humidity : -40 to 85℃(-40~185℉), 0-95%,RH,non-condensing.
- Instrument dimensions :83(L)*60(W)*24(H) mm.
- Weight : About 77g.

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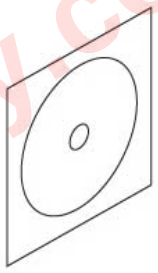
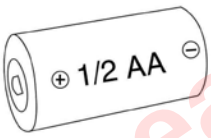
Applications

- Building HVAC monitoring.
- Warehouses.
- Refrigerator.
- Clean rooms.
- Freezer.
- Shipping vans.
- Shipping crates.
- Cargo vessels.
- Storage areas.

WHAT'S IN THE BOX

		
1.Main Unit	2. USB Cable	3. Installation Disk
		
4. 1/2 AA Battery		

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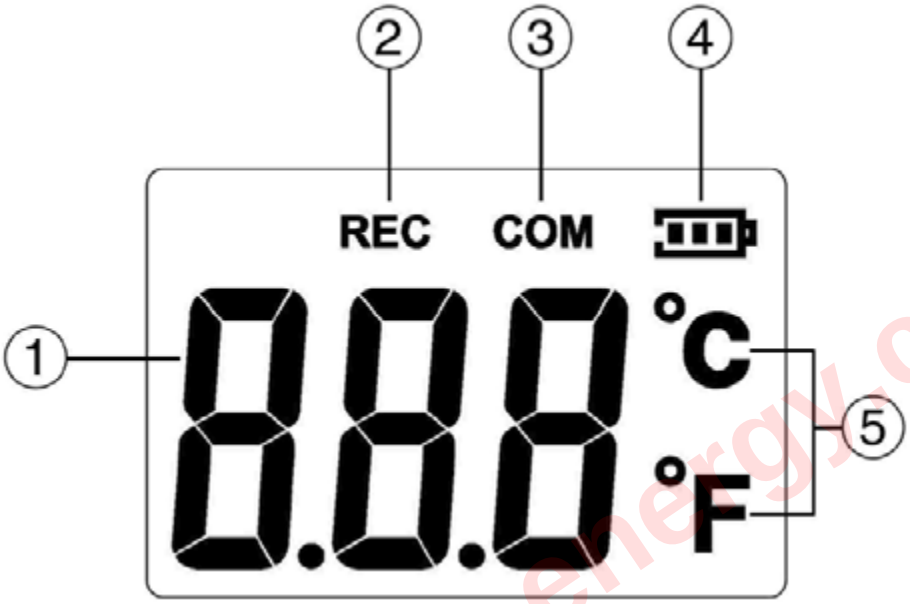
START UP AND GENERAL OPERATION

LCD Display



1.	Temperature Display	4.	Battery Level Indicator
2.	Recording	5.	Unit of Measurement
3.	USB Communication		

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Turn On Temperature Data Logger

- Press the Start button for 2 seconds to turn on the Temperature Data Logger.
- The unit is ready to use.

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Switch between ℃ or ℉

- Press ℃/℉ to switch between ℃ or ℉

Display current Temperature(℃)	Display current Temperature.(℉)

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Recording Data

- Press the Start button to start data recording.

- The LCD display will display REC and the LED green light twinkle when the **Temperature Data Logger** is recording.

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- Press the Start button again to stop recording.

- When recording stopped, the REC will disappear.

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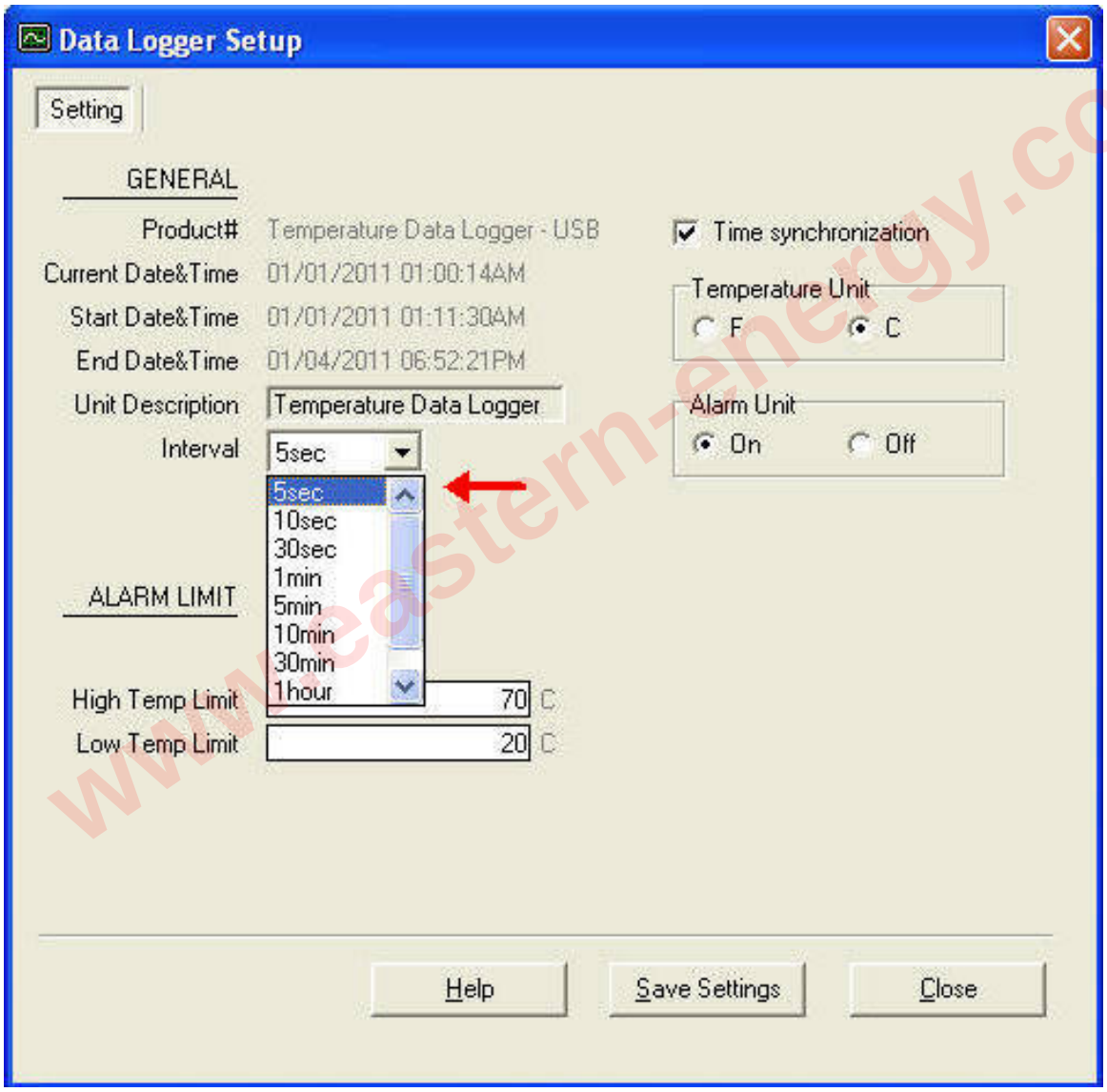
Sampling rate

(5sec / 10sec / 1min / 5min / 10min / 30min / 1 hour)

Data sampling rate can only be set from PC setup screen.

Select the time interval from the drop-down menu.

Click “Save Settings” to save the setting.



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PC SOFTWARE INSTALLATION

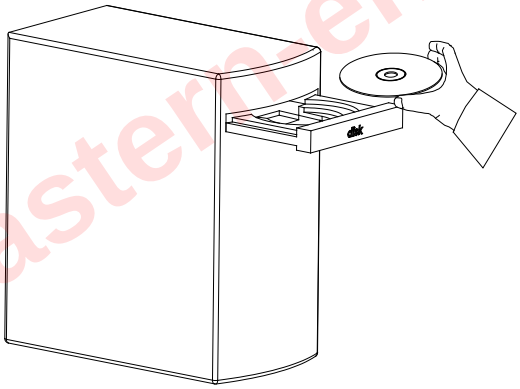
Installation Requirements:

Minimum system requirements for the software:
-Pentium III - 500 MHz processor or equivalent with 128 megabytes of RAM.

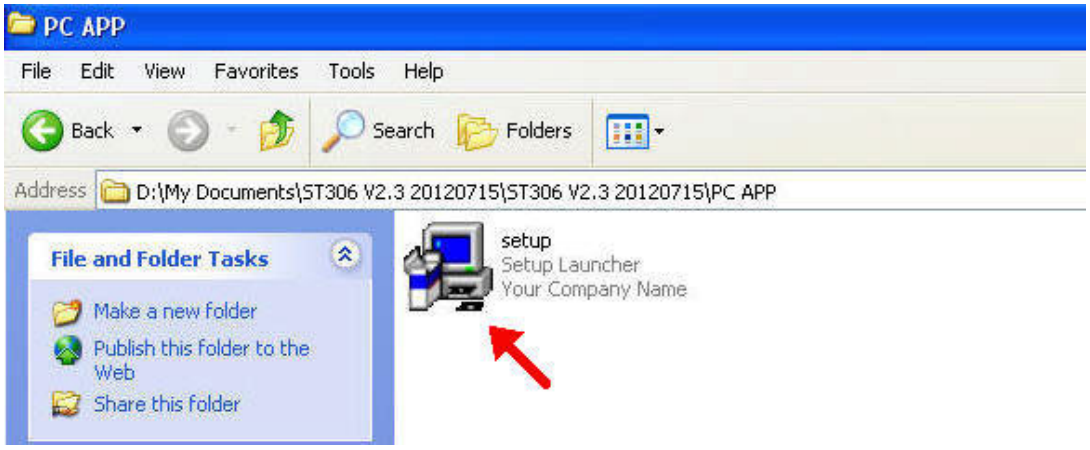
Optimal Performance:
-Pentium 4 - 2.8 gigahertz processor or equivalent with 256 megabytes or RAM.

Operating System Requirements:
-Windows 2000
-Windows XP
-Window 7

- Insert the CD into the disk drive.



- Click Setup to start installation.



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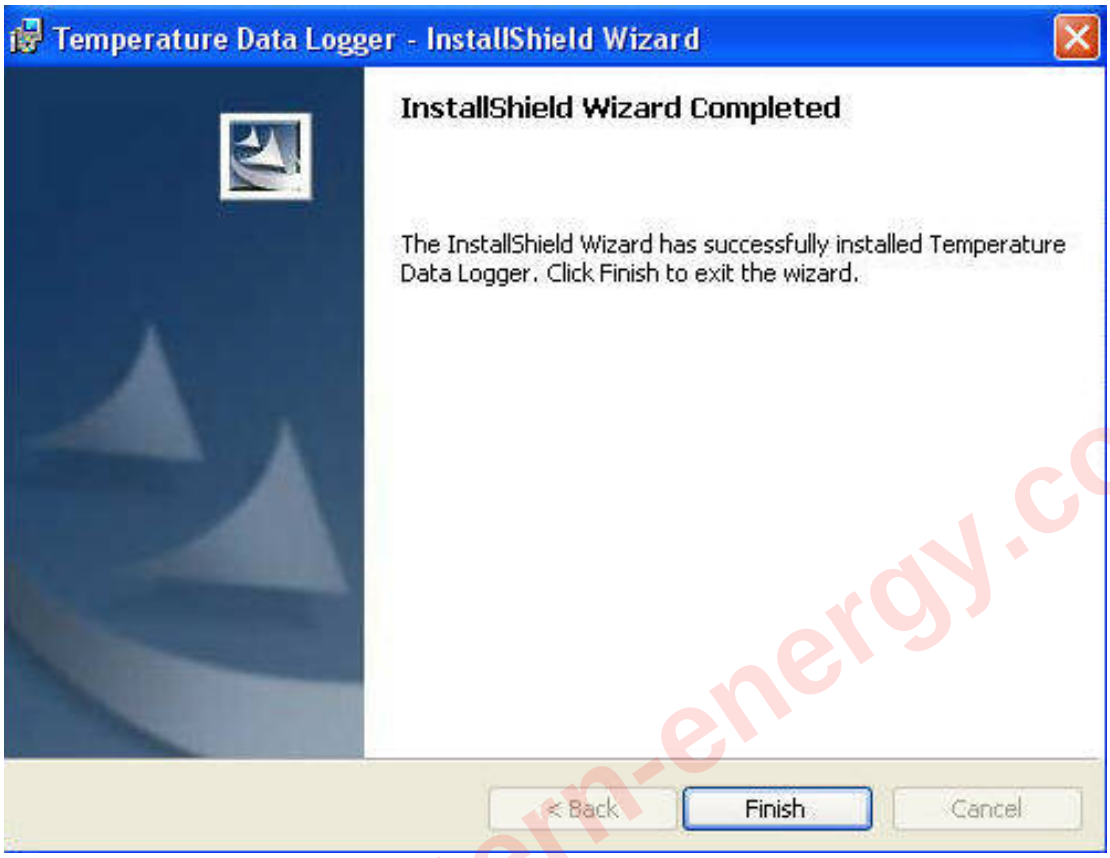
Follow the steps on the Installation Shield Wizard and click Finish to complete the installation.



USING PC SOFTWARE

- Start Window PC software.
- Click on All programs, Click on “Temperature Data Logger”
- Click on STLogger to start the datalogger program.

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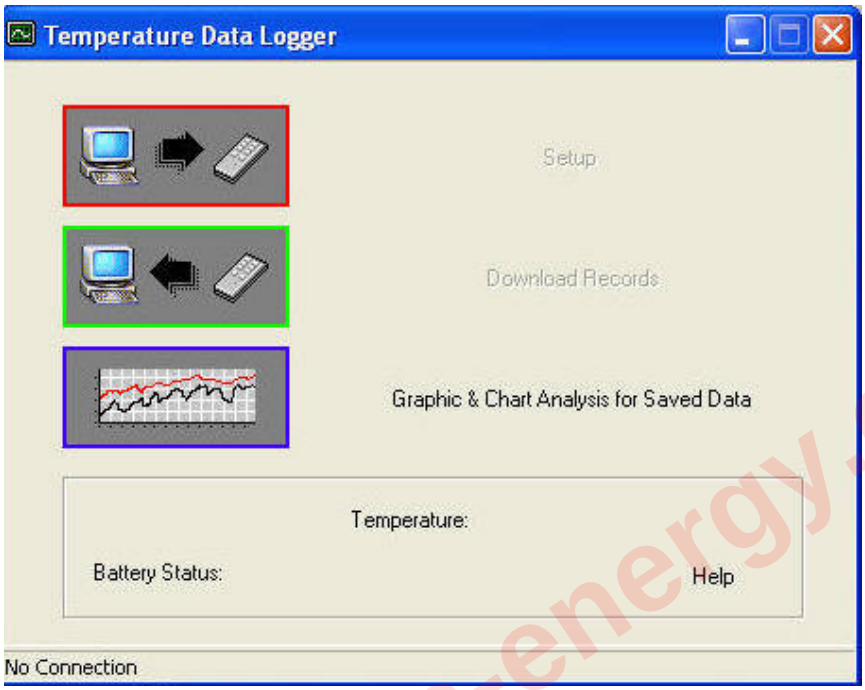
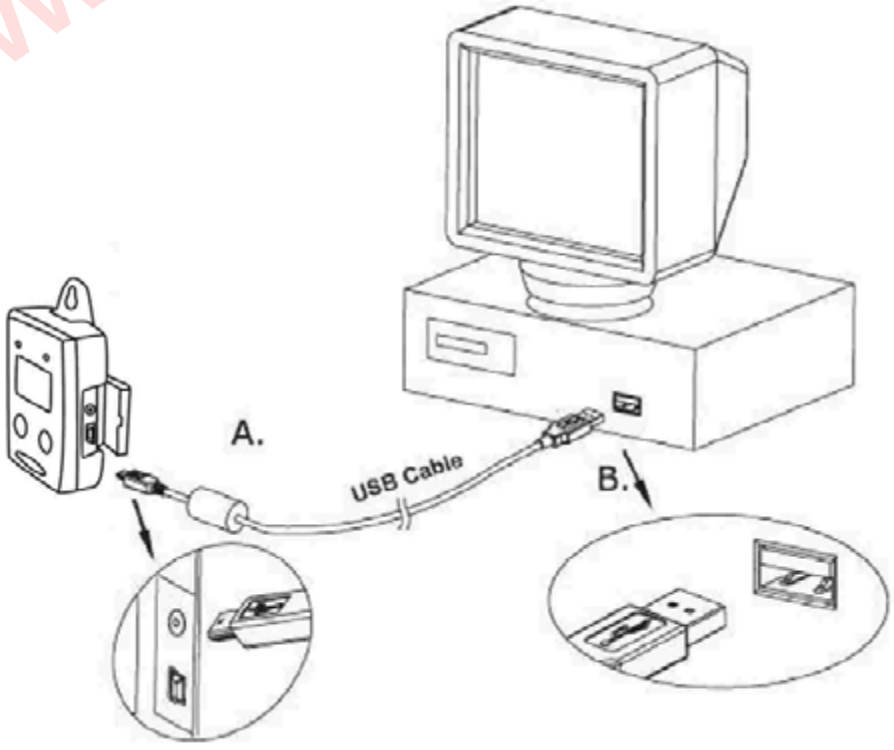
Connection Status



No Connection Screen

- Connect **Temperature Data Logger** to the PC with a USB cable.



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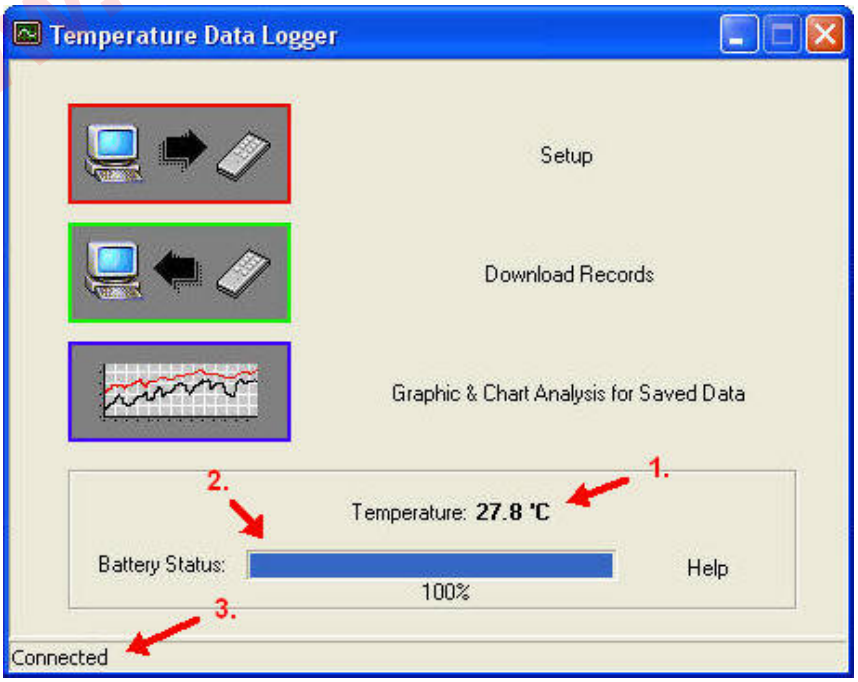
- Press Start for 2 seconds to turn on Temperature Data Logger. **Temperature Data Logger** is now connected to the PC.

- If the datalogger is properly connected, these three values will show up.

1. Temperature Reading
2. Battery Status
3. Display “Connected”



Connected Screen

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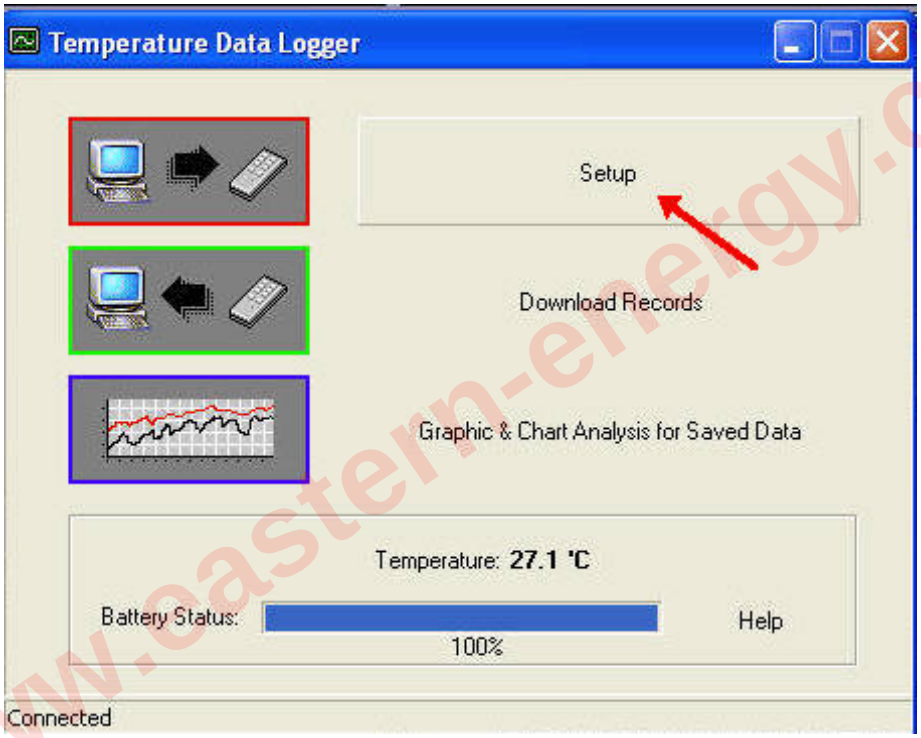
Setup Screen

Click “Setup” to enter the Setup screen.



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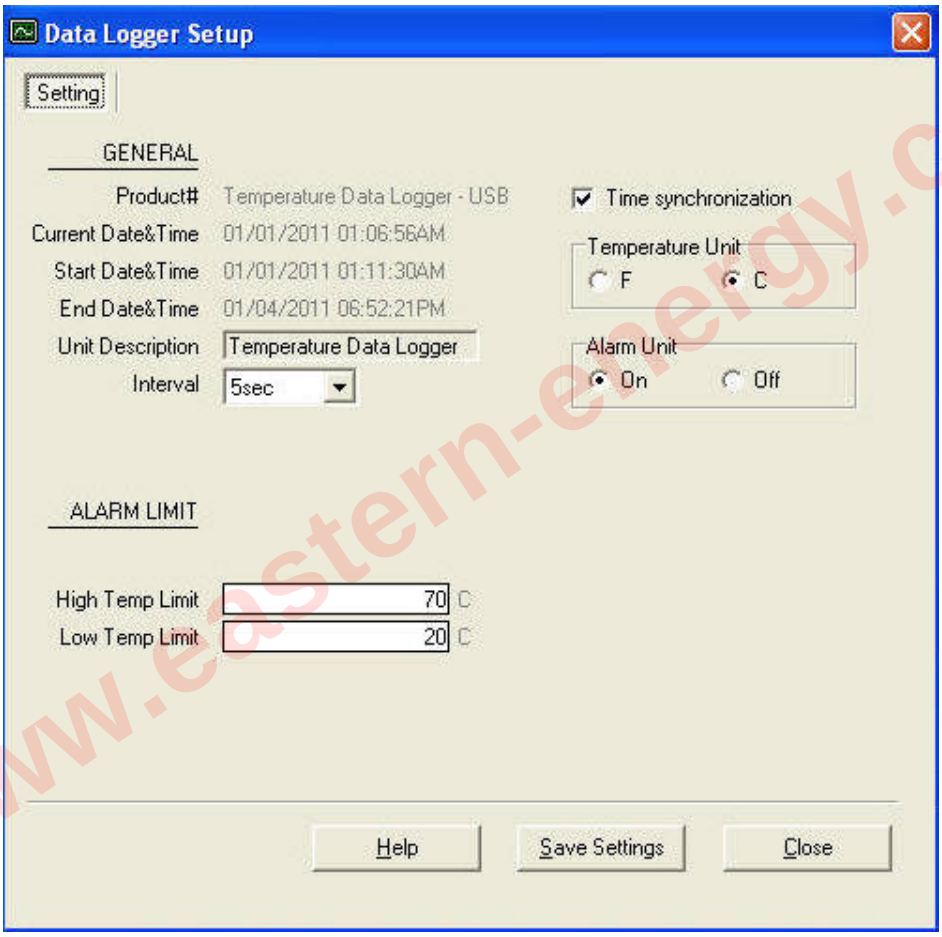
- The values in the white area can be changed by the user.
- The value in the grey area can not be changed by the user.
- Click “Save Settings” to save the values to the datalogger.



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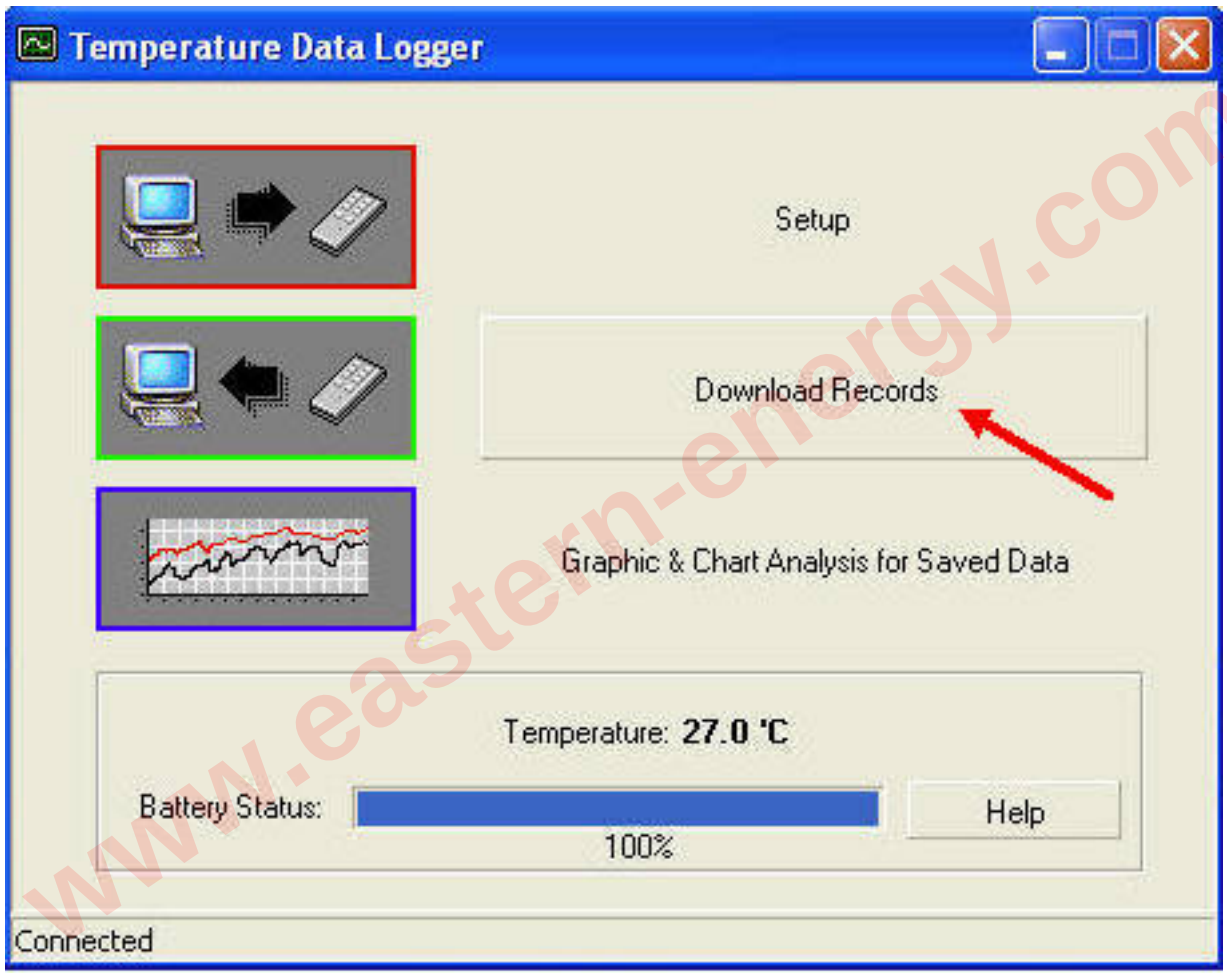
Download Records

- Click Download to download the stored data.



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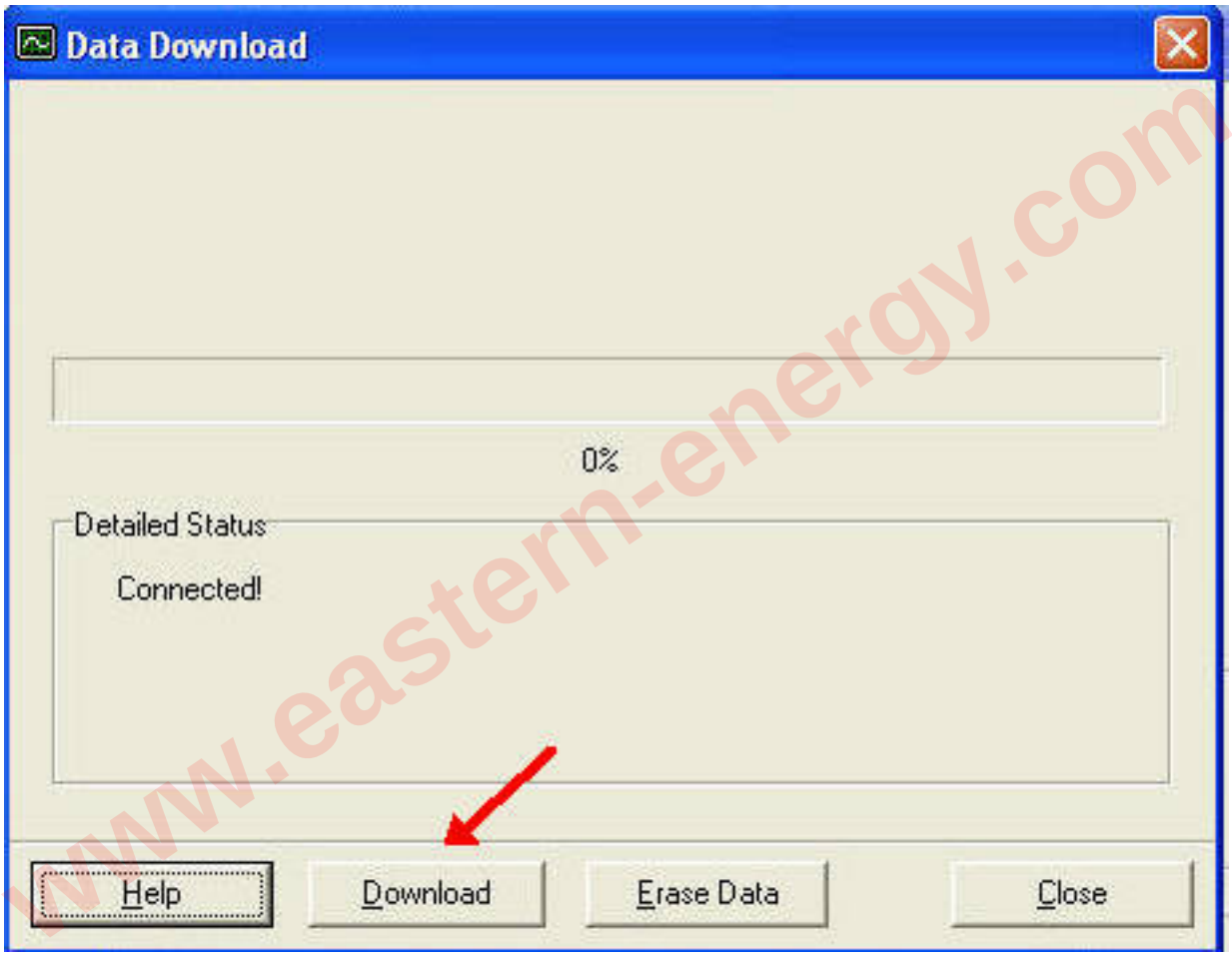
- Click “Download” to start the download.



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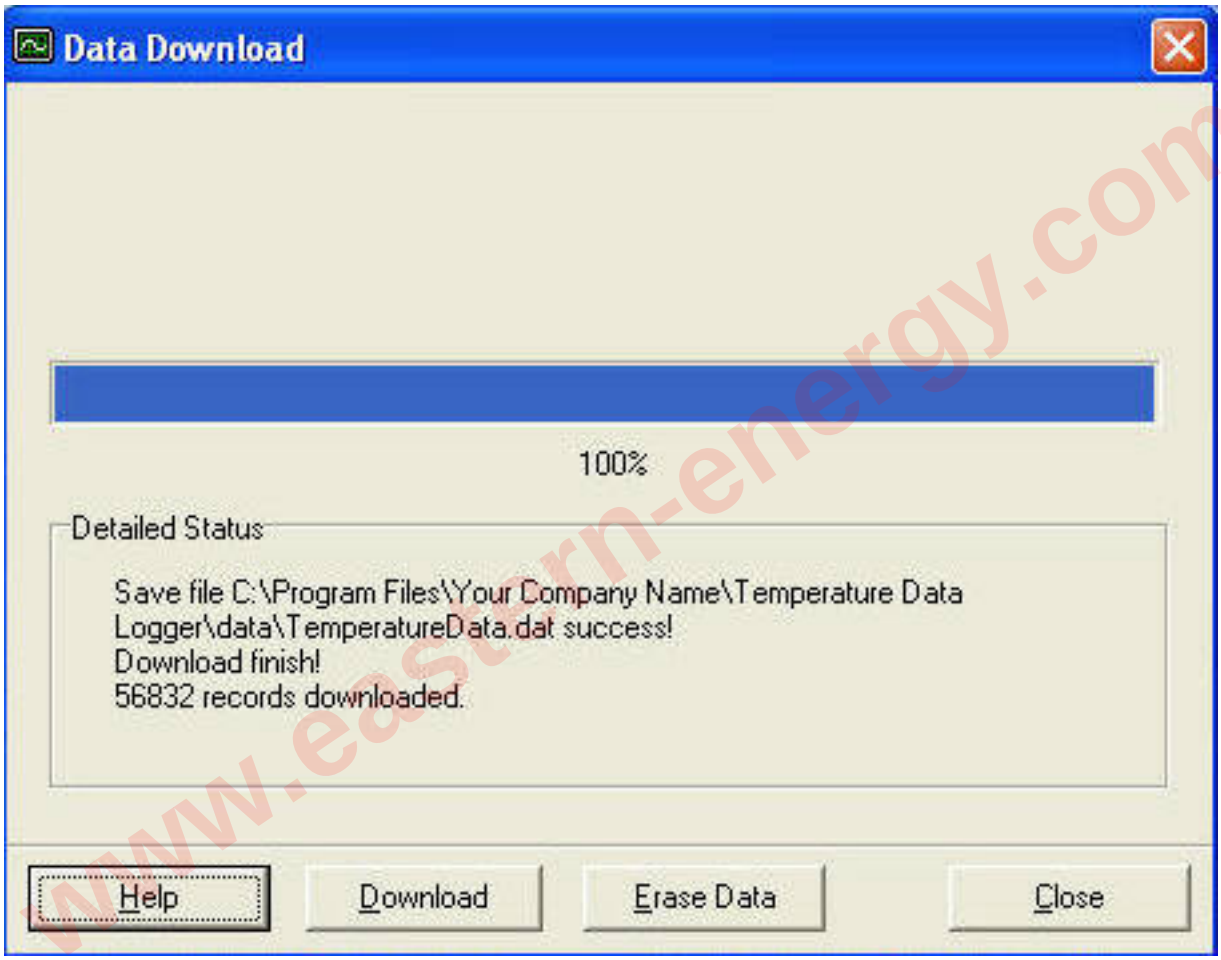
- Download Completed



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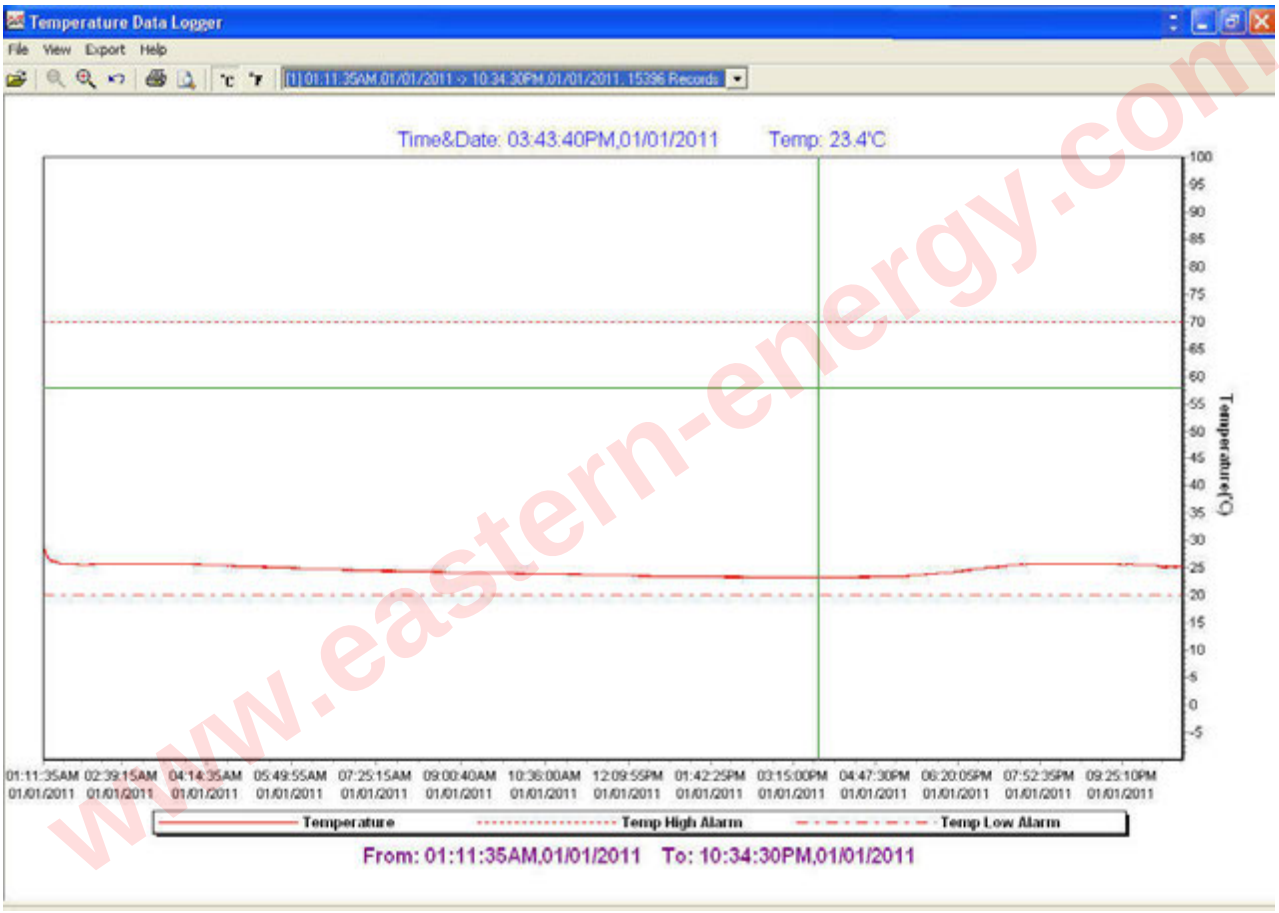
Graphic & Chart Analysis

Downloaded data will first be displayed in graph format.



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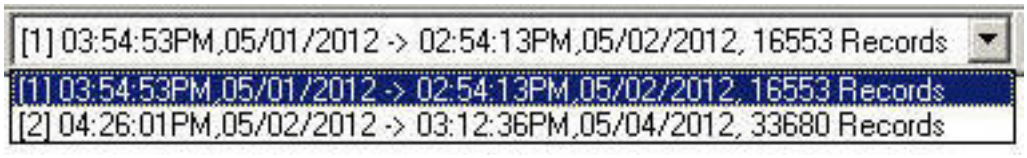
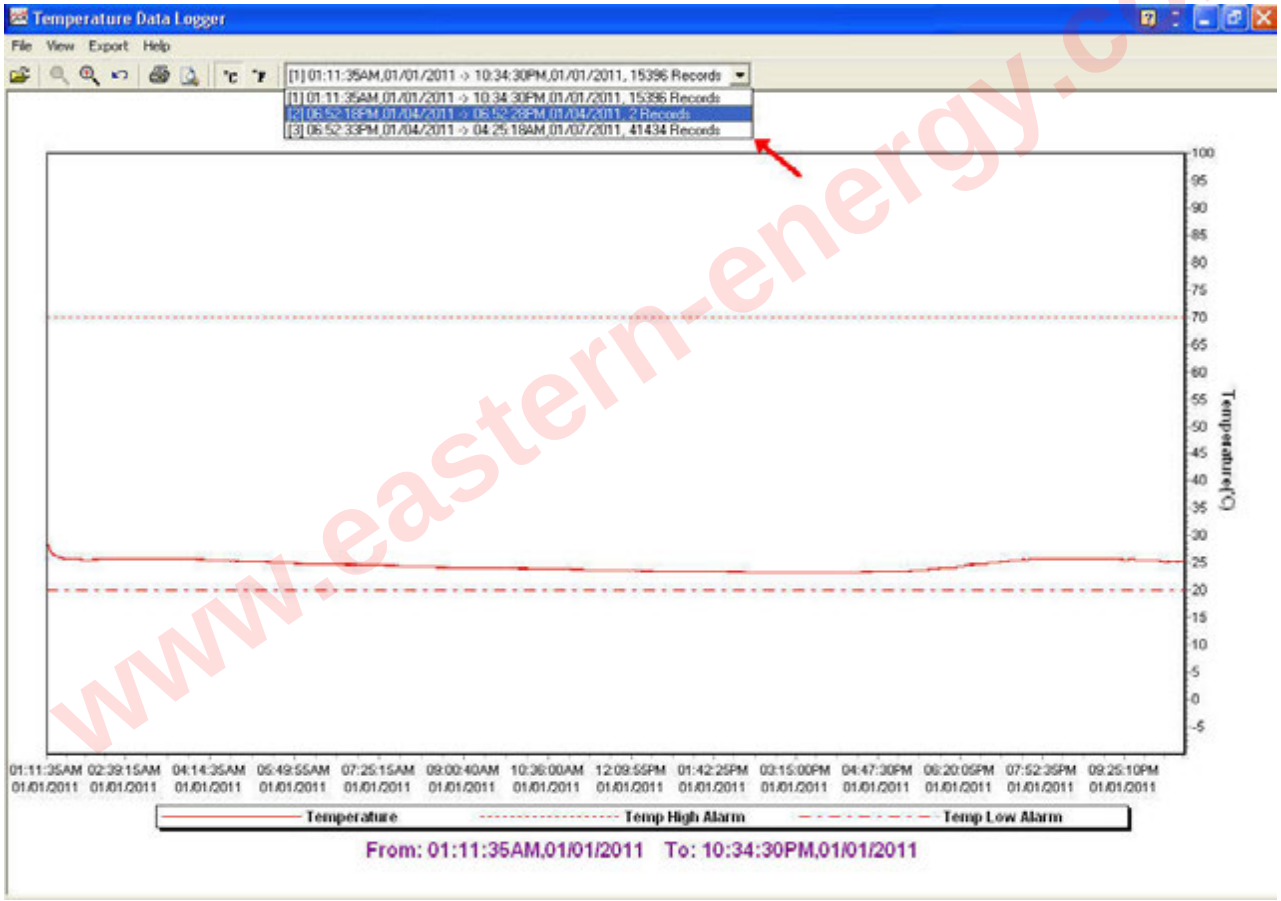
Each data groups are listed according to the date of the sampling. Lowest group number represents earliest sampling date.





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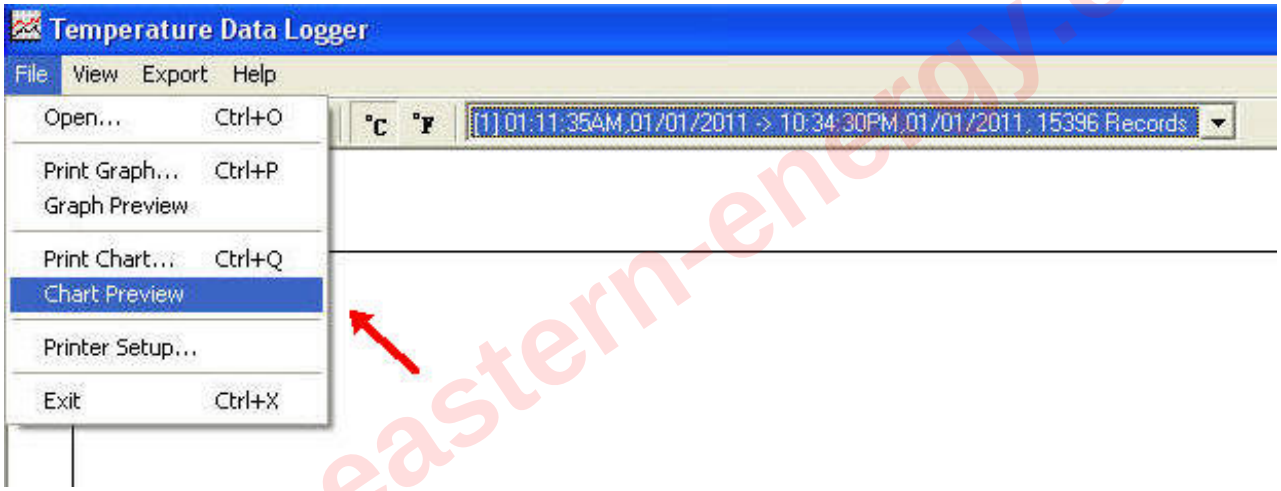
Data in Listing Format

To display data in Listing format:

- Click File
- Click Chart Preview



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Data Listing Format

Product Name: Temperature Data Logger
Description: STLogger Record Data
Start Data&Time: 06:52:18PM,01/04/2011
End Data&Time: 06:52:28PM,01/04/2011
Interval: 10 seconds
Record Count: 2
Temp Alarm High: 70.0 'C
Temp Alarm Low: 20.0 'C

No.	Time	Date	Temp('C)	Alarm
1	06:52:18PM	01/04/2011	33.2	
2	06:52:28PM	01/04/2011	33.5	

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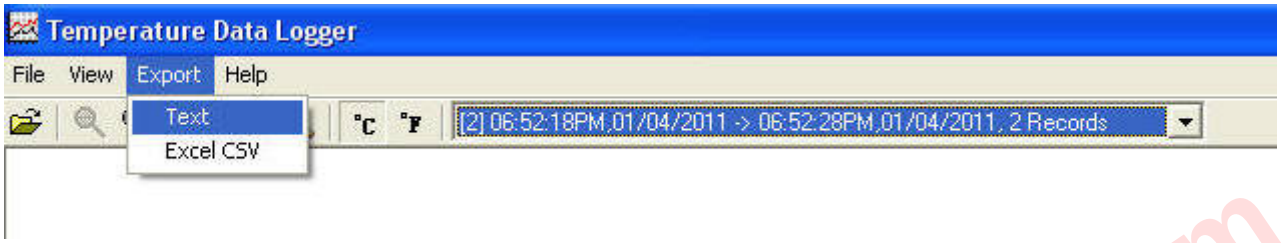
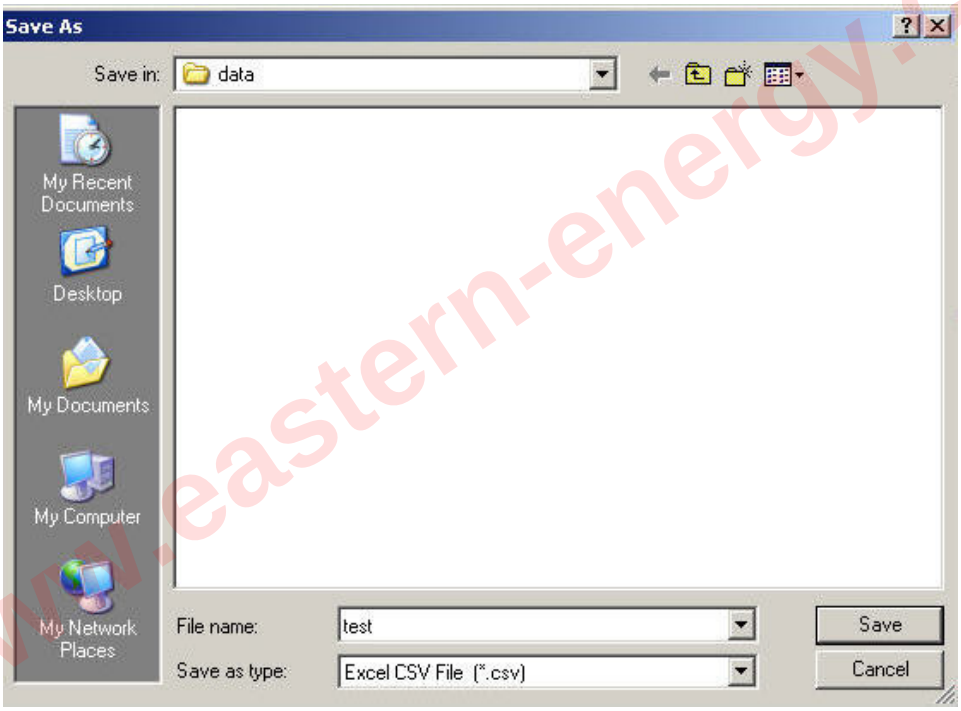
Data Export

Select export data type: Text or Excel CSV.





Click Save to save the file in .CSV/Text format.

File Saved.

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