Temperature Datalogger

IP 54 Water Proof USB Datalogger



Users Manual

Eastern Energy Co., Ltd. 40/4 Vitoondumri Rd., Banbueng Banbueng, Chonburi, Thailand



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FEATURES & SPECIFICATIONS

Features

- Measure °C/°F Temperature .
- Datalogging- 50,000 records
- Fast USB download
- Easy- to-Use PC software for parameter settings and data analysis
- Internal Temperature alarm ٠

Specifications

Temperature

p	ecifications	
el r	mperature _	
	Туре	Thermistor
	Measurement Range	-40 to 85°C(-40~185°F)
	Accuracy	±1.2°F(0.6°C) from -4 to 122°F(-20 to 50°C)
		±1.8°F(1.0°C) all other ranges
	Resolution	0.1°C
_		25

- 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°C(-40~185°F), 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

Alarm Record O Tarme corr 300 Part corr 300 Pr Pr Presperature Data Logger Game Sp		0
1.Main Unit	2. USB Cable	3. Installation Disk
⊕ 1/2 AA ⊖		
4. 1/2 AA Battery		
NNN		

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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 °C or °F

• Press °C/°F to switch between °C or °F



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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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Tel: 66-3844-6117 sale@ete.co.th www.eastern-energy.com

gy.com

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.

🖾 Data Logger Se	tup		
Setting <u>GENERAL</u> Product# Current Date&Time Start Date&Time	Temperature Data Logger - USB 01/01/2011 01:00:14AM 01/01/2011 01:11:30AM	Time synchronization Temperature Unit	COL
End Date&Time Unit Description Interval	01/04/2011 06:52:21PM Temperature Data Logger 5sec	Alarm Unit © On © Off	
ALARM LIMIT	10sec 30sec 1min 5min 10min 30min		
High Temp Limit Low Temp Limit	1hour70 C 20 C		
	<u>H</u> elp	Save SettingsClose	

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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.



Connection Status

Temperature Data Logger		
	Setup	
	Download Records	
hum	Graphic & Chart Analysis for Saved Data	CO,
Battery Status:	Temperature:	

No Connection Screen

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



• 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

Setup Screen

Click "Setup" to enter the Setup screen.

u 🔿	Setup	1.
	Download Records	
hanne	Graphic & Chart Analysis for Sav	ved Data
25	Temperature: 27.1 °C	
Battery Status:	100%	Help

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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.

Product# Current Date&Time	Temperature Data Logger - USB	🔽 Time synch	nronization	
Current Date&Time	01/01/2011 01:06:56AM			
CLARK DALLOTING	01/01/2011 01:00.00MM	Temperature	Unit	
Start Date&Time	01/01/2011 01:11:30AM	C F	(° C	
End Date&Time	01/04/2011 06:52:21PM			
Unit Description	I emperature Data Logger	Alarm Unit	C 0#	
ALARM LIMIT				
High Temp Limit	70 C			
Low Temp Limit	20 C			

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Download Records

• Click Download to download the stored data.



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• Click "Download" to start the download.

📧 Data Download	
	con con
Detailed Status Connected!	0%
<u>H</u> elp <u>D</u> ownload	<u>E</u> rase Data

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Download Completed

🛛 Data Download 🛛 🛛 🔀	
100%	
Detailed Status	
Save file C:\Program Files\Your Company Name\Temperature Data Logger\data\TemperatureData.dat success! Download finish! 56832 records downloaded.	
<u><u>D</u>ownload <u>E</u>rase Data <u>C</u>lose</u>	

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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.

[1] 03:54:5 1] 03:54:5 [2] 04:26:0	3PM,05/ 3PM,05/ 1PM,05/	01/2012 -> 01/2012 -> 02/2012 ->	02:54:13P 02:54:13P 03:12:36P	M,05/02 M,05/02 M,05/04/	/2012, / <mark>2012</mark> /2012, :	16553 16553 33680	Recor Recor Recor	ds 💌 ds ds		
Temperature Dat	a Looser								6	7
e View Export He	lo lo									
2 Q Q 10 6	6 <u>6</u> 10 17	[1] 01:11:35AM,01/01 [1] 01:11:35AM,01/01 [2] 05:52135AM,01/04 [3] 06:52:33PM,01/04	/2011 ⇒ 10:34:30PM, /2011 ⇒ 10:34:30PM, /2011 ⇒ 10:34:30PM, /2011 ⇒ 04:25:18AM,	01/01/2011, 1539 01/01/2011, 1539 01/04/2011, 1539 01/07/2011, 4143	S Records S Records cods Records					
					e	~	8			100 95 90 85 80 75
			54							70 65 60 55 50 45 40
		e			_		<u>.</u>			35 30 25
N	N									20 -15 10 -5 -5
1.11:35AM 02:39:15AM 1.01.2011 01:01:2011	04:14:35AM 05 01:01/2011 0	49:55AM 07:25:15AM	09:00:40AM 10:36: 01:01/2011 01:01/	20AM 12:09:55Ph 2011 01:01/2011	01:42:25PM 01:01/2011	03:15:00PM 01/01/2011	04:47:30PM 01.01/2011	06:20:05PM 01:01/2011	07:52:35PM 01.01/2011	09:25:10PM 01/01/2011

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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: Temper Description: STLogg Start Data&Time: 06:52:1 End Data&Time: 06:52:2 Interval: 10 secon Record Count: 2 Temp Alarm High: 70.0 'C Temp Alarm Low: 20.0 'C <u>No. Time Date</u> 1 06:52:18PM 01/04/	ature Data Logger er Record Data 8PM,01/04/2011 8PM,01/04/2011 nds <u>Temp('C) Alarm</u> 2011 33.2 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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