



Contents

1. System Requirements	3
2. Setting up the Phocos CX/CXN Charge Controller Menu	4
3. Installing the Drivers for the Phocos CXI	6
4. Installing the Software	7
5. The Software	14
5.2 State of Charge Controller and Current Values	17
5.3.1 General Datalogger values	20
5.3.2 Datalogger data from last week, last month and last year	
5.4 System Performance	25
5.5 Saving Data	27
5.6 Load and Save data to download it again in the software	
5.7 The Charge Controller Settings Menu	
5.8 Setting Nightlight Functions	
5.9 Use the help	
6. Removing Phocos CXCOM	34
7. Technical Support Questions	



1. System Requirements

Windows XP

This software runs with Windows XP. You need 6 MB free memory

Windows 98, 2000 and Me

If you are using Windows98, Windows2000 or Windows Me, you must install the Microsoft .Net Framework. You can find and download .Net Framework at following URL:

http://go.microsoft.com/fwlink/?LinkId=9832

Your system may require Microsoft Internet Explorer 6.0 in order to download the .Net Framework. You can download Internet Explorer 6.0 at following URL:

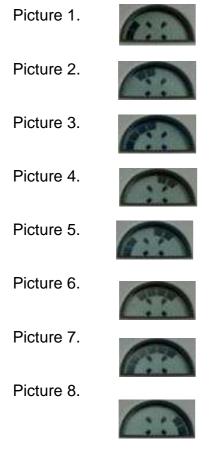
http://www.microsoft.com/downloads/details.aspx?displaylang=en&FamilyID=1E1550CB-5E5D-48F5-B02B-20B602228DE6



2. Setting up the Phocos CX/CXN Charge Controller Menu

Program the Phocos CX/CXN Charge Controller according to the following diagrams.

First, push and hold the button on the charge controller until you see Picture 1. Then short push the button repeatedly until you see Picture 8. With each push of the button, the display will change as shown on the Picture on the right.



If you see this picture push and hold the button until you see one of the following Picture: 8.1, 8.2 or 8.3 (see below). Next, push and hold the button until you see the picture flashing. Then short push the button repeatedly until you see Picture 8.3



Picture 8.1. Picture 8.2.

After you see Picture 8.3, push and hold the button to save the setting. Short push the button once and you will see the Picture 8 again.

Short push the button again and you will see the Picture 9.

Picture 9.



Once you see Picture 9 short push button one more time. You will now be of the charge controller programming menu.

The Phocos CX/CXN Charge Controller is now ready for communication with the Phocos CXCOM software.



3. Installing the Drivers for the Phocos CXI

In order to install drivers, you must connect the Phocos CXI cable to a USB port of your computer. To install drivers for the Phocos CXI cable it is not necessary to connect to the Phocos CX/CXN charge controller to the interface cable.

You only need to connect the interface cable with the USB port of your computer. To install the drivers for the Phocos CXI, use the installation guide on the CD-Rom. The installation guide is located in the following folder:

\Phocos CXI driver\InstallationsGuide.pdf



4. Installing the Software

To install the software you have to start setup.exe on the CD-Rom. Follow the instructions of the setup.

Step 1: Install the Microsoft .NET Framework

Open setup.exe and you will see the following picture if Microsoft .NET Framework **is not** currently installed on your computer. If Microsoft .Net Framework is already installed, look into step 2 of the installation.

Windows	Installer Loader 🔀
?	This setup requires the .NET Framework version 1.1.4322. Please install the .NET Framework and run this setup again. The .NET Framework can be obtained from the web. Would you like to do this now?
	Ja Nein

Click to "Yes" and the next window will appear.

Microsoft .NET Framework 1.1 Setup	
Extracting netfx1.cab	
	Cancel

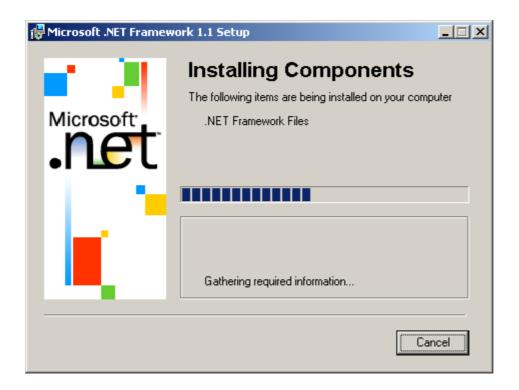
Microsoft .NET Framework installation is executing now.



Click "I agree" if you agree with license terms of Microsoft .NET Framework. Then, click "Install" to continue software installation.



Microsoft .NET Framework setup is installing components now.





Finish of the .NET Framework installation with a message.



Now the Microsoft .NET Framework is installed on your computer. You must start the setup.exe again to install the Phocos CXCOM software.

Step 2: Start the setup.exe to install the software

Start setup and you will see the picture below. Click "Next" and you will get to the next window.

🔀 Phocos CX software			
Welcome to the Phocos CX so	oftware Setup V	√izard	
The installer will guide you through th software on your computer.	e steps required to	install Phoco	s CX
WARNING: This computer program is international treaties. Unauthorized du any portion of it, may result in severe prosecuted to the maximum extent po	plication or distribu	tion of this pr alties, and wi	ogram, or
	Cancel <	Back	Next >

June, 2007

In this window you can choose the folder the software should be installed to your computer.

ocos

🖟 Phocos CX software			
Select Installation Folder			
The installer will install Phocos C	X software to the	o following folder.	
To install in this folder, click "Nex	xt". To install to a	different folder, e	nter it below
<u>F</u> older:			
C:\Programme\Phocos\Phoco	os CX software\		Browse
			Disk Cost
Install Phocos CX software for y	yourself, or for any	yone who uses thi	s computer:
Everyone			
⊂ Just me			
		([]	
	Cancel	< Back	Next >

At the bottom of the window choose "Everyone" that all users can start the software.

June, 2007

The window below shows to you that the installation is ready to begin. Click "Next".

🎏 Phocos CX software			
Confirm Installation			
The installer is ready to install Pho	ocos CX software	e on your compute	∍r.
Click "Next" to start the installation			
	Cancel	< Back	Next >



June, 2007

Phocos CXCOM software is being installed now.

🞼 Phocos CX software			
Installing Phocos CX softw	are		
Phocos CX software is being inst	alled.		
Please wait			
	Cancel	< Back	Next >

phocos

Page 12 of 35

June, 2007



Phocos CXCOM software has been successfully installed.

🞼 Phocos CX software			
Installation Complete			
Phocos CX software has been su	uccessfully install	ed.	
Click "Close" to exit.			
Please use Windows Update to o Framework.	check for any criti	cal updates to t	he .NET
	Cancel	< <u>B</u> ack	Close

The software has now been installed on your computer. A shortcut icon will be added to the desktop and the Windows start menu.

≙	схсом

Double click the Phocos CXCOM icon on the desktop and the software will run.



5. The Software

Choose the Comport and connect the Charge Controller. The CX and CXN have different Interfaces you can see in the pictures.

CX:



CXI Interface

Fig 5.1.1: Interface Phocos CX Chargecontroller

Connect the Phocos CXI cable with any USB Port on your computer and the other end with the Phocos CX Charge Controller Interface as shown in Fig. 5.1.1.

CXN:



CXI Interface CXT Interface

Fig 5.1.2: Interface Phocos CXN Chargecontroller

Connect the Phocos CXI cable with any USB Port on your computer and the other end with the CXI-CXN adapter which is the same box as the CXI. The other end you must connect with the left bush of the CXN, as you can see in picture 5.1.2.



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Now, open the "Start" menu on your desktop. Select "Control Panel", then "System", "Hardware", then "Device Manager." You will find a window, as depicted in fig 5.1.2. There, you will see the Comport connector which is now installed on your computer. You must set this Comport connector in the software as shown in the next step (Figure 5.1.3).

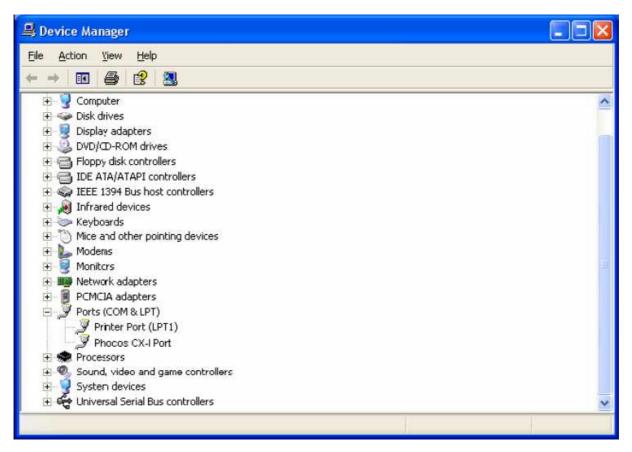


Fig. 5.1.2 Check the Comport at the Devices Control.



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Double click the Phocos CXCOM icon on your computer desktop to run the Phocos CXCOM software.

Click "Comport" on the menu bar at the top and set the correct port number. If your Comport number is higher then 15, choose "manual." Then, input your comport number.

Or you can click "automatic" and the software will search for the right comport automatically for you.

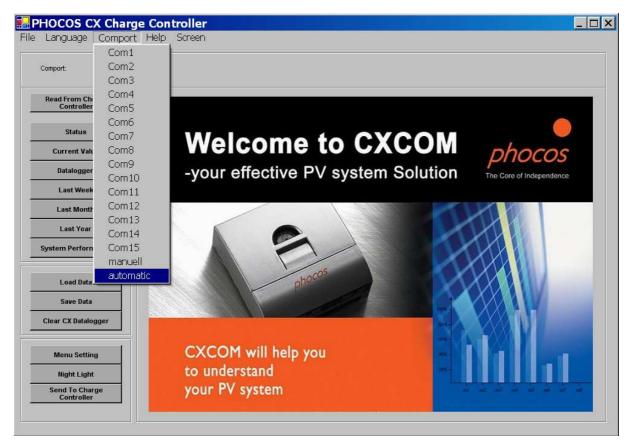


Fig. 5.1.3 Comport setting



5.2 State of Charge Controller and Current Values

You can switch between the different windows of the program by clicking on the buttons on the left side of the screen. (i.e. Status, Current Values, ..., Menu Setting, Night Light).

If you click on "Status" you will see the Status window. Click on "Read from Charge Controller" and the window shows you some important details about the system as shown in Fig. 5.2.1.

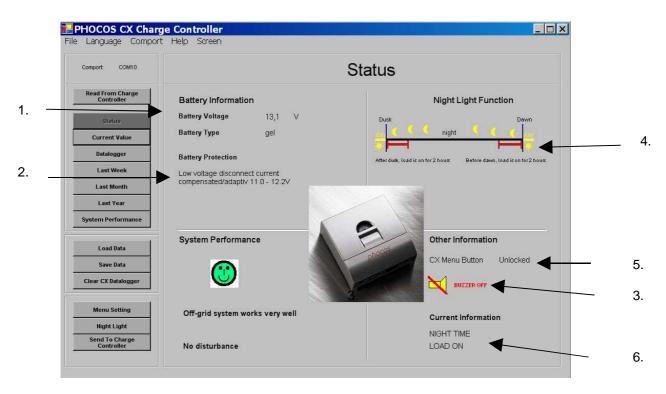


Fig. 5.2.1 State display from the controller

- Battery type: Liquid Lead Acid or GEL Battery voltage
- The voltage when the charge controller should disconnect the load from the battery to protect it from deep discharge (Low Voltage Disconnect)
- Acoustic buzzer that sounds when the battery becomes empty
- Load settings for the Nightlight function
- Button lock (the charge controller menu button is locked or not)
- Here you can see load on or off at the charge controller at the moment and if the charge controller knows it is currently NIGHT or DAY



Click on the button "Current Values" to see the current status of system as shown in Fig. 5.2.2.

Comport: COM8	Current Values		
Read From Charge Controller	Battery Information		
Status	Battery Voltage in V:	13,1	
Jalus	Battery State Of Charge in %:	97	
Current Values	Soc voltage change effected by setting adaptiv in V:	0,1	
Datalogger	End of charge voltage:	14	
Last Week	Battery Charge Mode:		
Last Month	Other Information		
Last Year	CX Version:	64	
System Performance	Hours Since Night Begin:	0	
	Night Lenght Last Night (in hours):	12	
Load Data	Temperature in C:	13	
Save Data	Present Current data		
Clear CX Datalogger	Nominal Current:	10 A	
1	Ecxess energy (PV generator) in %:	100	
Menu Setting Night Light	PV Current in % (from nominal current):	0	
Migric Ligric	Load Current in % (from nominal current):	0	

Fig. 5.2.2 Current data of the charge controller

Explaining the Data in the "Current Value" window

Battery Information:

- "Battery voltage in V" is the current battery voltage
- Battery state of charge (SOC) in %
- SOC voltage change effected by setting adaptive in V
- End of Charge Voltage in V
- The Battery Charge mode (BOOST = 14.4V/28.8V or EQUAL= 14.8V/29.6V)

June, 2007



Other Information:

- Version number of the Phocos CX/CXN Controller
- Number of hours since beginning of the night
- Length of the last night in hours
- Temperature in ℃

Present Current Data:

- Nominal current of the Phocos CX/CXN Charge Controller
- Excess energy available (energy of PV generator which the system can't use at the moment)
- Photovoltaic current in percent of the nominal current
- Load current in percent of the nominal current

5.3 Loading Datalogger data

You can see the Datalogger data of the charge controller if you click one of the following windows buttons:

- Datalogger Shows general data for the datalogger.
 Last Week
 - Shows data for the last seven days (last week).
- Last Month Shows data for the last four weeks (last month).
 Last Year
 - Shows data for the last twelve months (last year).



5.3.1 General Datalogger values

You can see the Datalogger data when you click on "Datalogger".

Comport: COM10	Datalogger	
Read From Charge Controller	Battery Information	
Status	Number of low battery load disconnects:	0
Current Value	Number of weeks without fully charged battery:	1
Last Week	Number of months without fully charged battery:	0
Last Month		
Last Year	Amperehours	
System Performance	PV Amperehours:	0
Load Data	Load Amperehours:	0
Save Data		
Clear CX Datalogger	Other Information	
Menu Setting	Average battery state in the mornings in %:	82
Night Light	Start Of Recording (Days):	10
Send To Charge Controller		

Fig. 5.3.1 Data of the charge controller Datalogger

If you click "Read from Charge Controller," you can download the current saved data from the Charge Controller Datalogger.

Battery Information:

- Number of low battery load disconnects (these are the disconnects to save the battery from deep discharge)
- Weeks / Months without a fully charged battery

Amperehours:

• Amperehours to the load and coming from the solar generator

Other Information:

- Average state of charge of the battery in the morning
- Number of days since the last time the Datalogger was cleared (recording days)



5.3.2 Datalogger data from last week, last month and last year

The windows "Last Week", "Last Month" and "Last Year" display the same information at different resolutions.

Explanation based on data from last week.

Comport: COM10	Last Week							
Read From Charge Controller	Day1 is the latest:	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
	Max Battery Voltage:	14,5	13,5	14	14,1	14,3	13,7	13,5
Status	Min Battery Voltage:	11,9	11,9	12,1	12,2	11,7	11,7	11,8
Current Value	State Of Battery Charge in % morning:	87	89	89	90	93	90	87
Datalogger	State Of Battery Charge in % evening:	99	99	99	96	99	97	99
Datalogger	PV Amperehours:	9	6	8	8	8	8	8
Last Week	Load Amperehours:	8	8	8	8	8	8	8
Last Month	PV Excess Amperehours:	18	18	10	15	19	15	16
Last Year	Max PV Current in % (Nominal Current):	67	70	65	65	70	72	70
	Max Load Current in % (Nominal Current):	17	17	7	17	17	17	17
Load Data	Fully Charged Battery: Low Battery Load Disconnects: PV Overcurrent:							
Clear CX Datalogger	Load Overcurrent: PV Overvoltage: Overtemperature:	0	0					
Menu Setting	Load Overtemperature:			0				
Night Light				1				

Fig. 5.3.2 Data from last week

If you look into the "Last Week" window you will see two buttons at the bottom of the window. There you can toggle between data and diagrams.

Explaining of the data:

- Maximum battery voltage each day
- Minimum battery voltage each day
- State of battery charge in % of the battery in the morning
- State of battery charge in % of the battery in the evening
- PV amperehours each day
- Load amperehours each day
- Excess energy produced by the solar generator each day
- Maximum current of the solar generator each day
- Maximum current of the load each day

An empty battery on this day will shown you this icon:

A fully charged battery on this day will shown you this icon:

Failures such as overtemperature, overcurrent etc. are indicated by this icon:



0



Click on the diagram button to look at four different diagrams created from stored data. Examples are shown in Fig. 5.3.3 and Fig. 5.3.4.

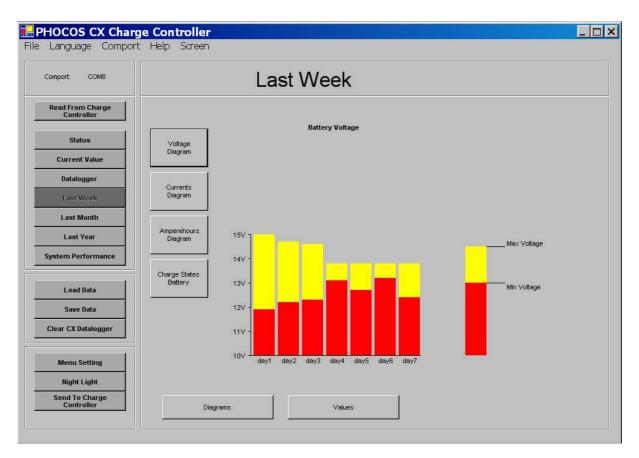


Fig. 5.3.3: Diagram of the minimum and maximum battery voltage each day.



Figure 5.3.4 is an example of the diagram depicting the battery state of charge (SOC) each day. The blue bars show the battery SOC in the evening. The orange bars show the battery SOC in the morning.

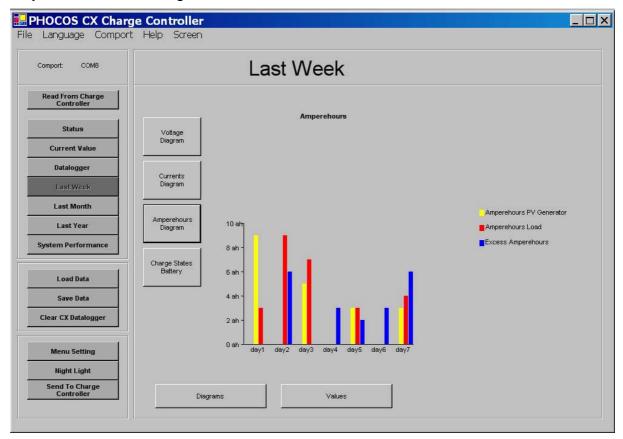


Fig. 5.3.4 Battery State of Charge Each Day

The data for "Last Month" and "Last Year" can also be obtained. These diagrams will be displayed by using the weekly or monthly averages for most data.

The "min" and "max" voltage diagram and "min" and "max" currents diagram are displayed as the minimum and maximum values for battery voltage and current flow values for each week or month.



5.4 System Performance

Click on "System Performance" and you will see a window similar to Fig. 5.4.1.

Comport: COM8	System Performance	
Read From Charge Controller	PV Generator Can the PV generator support the system always or is there sometimes too less energy? High PV energy reserve	Very
Status Current Value	Usage of the PV energy is less than 40%	good C
Datalogger Last Week	Battery Would the battery be handled so that a long life is guaranteed?	good
Last Month Last Year	No risk of sulphation	ok
System Performance. Ilear CX/CXN Datalogger	The battery usage is ok Safety Of Supply	bad
Load/Save Data Save Data	Is the energy store (battery) big enough to have a good safety of supply? Average battery state of charge: higher than 85%	very bad
Menu Setting	Safety of supply by the complete system is very good.	10, 500
Night Light Send To Charge Controller	Average Data	

Fig. 5.4.1 System Performance

The System Performance informs you how well the load was supported by energy produced by the system.

The following questions are answered:

- Is the PV generator able to supply the system with enough energy to power the load(s)?
- Is the battery being handled well enough to ensure maximum lifetime?
- Is the energy reserve capacity (battery) large enough to power the system?



Average data about the system:

If you click "Average data" in the "System Performance" window, you can view average data and possible disturbances in the system.

Comport: COM8		System Performance	
	Daily Average		
Read From Charge Controller	PV Energy Usage in %:	33	
7/4	Load Amperehours:	8	
Status	PV Amperehours;	8	
Current Value	Weekly Average		
Current value	PV Energy Usage in %:	34	
Datalogger	Load Amperehours:	8	
Last Week	PV Amperehours;	8	
Last Month	Monthly Average		
Last Year	PV Energy Usage in %:	33	
Last rear	Load Amperehours:	8	
System Performance.	PV Amperehours;	8	
lear CX/CXN Datalogger	Disturbance		
Load/Save Data		PV current was over the nominal current	
Save Data		Load current was over the nominal current	
Menu Setting	Ō	The battery voltage was too high	
Night Light		The temperature was too high	
Send To Charge Controller		ſ	

Fig. 5.4.2 Average data



5.5 Saving Data

You also have the ability to save data from the datalogger to a Microsoft Excel[™] (.csv) or a text (.txt) file. For this feature, click "save as Excel file" or "save as txt".

Comport: COM8		Save Data	
Read From Charge Controller	Data Save As Excel File or Txt Note: Data saved here cannot be reload	id again in the software	
Status			
Current Value	Search Path		
Datalogger			
Last Week	The data will saved at following path:		
Last Month	File Name:	r	
Last Year	Date:		
System Performance	Location:		
lear CX/CXN Datalogger	Charge Controller Identification:		
Load/Save Data	Battery capacity:		Save as excel file
Save Data	PV Power:		
Menu Setting	Notice:		Save as txt
Night Light			
Send To Charge Controller			

Fig. 5.5.1 Save data

To save as an Excel or text file, first click "search path" and choose a path in the opened window. After this, click "ok," then click "Take File Path". The path will be shown to you. Now you must give the file a name. You can also save more details like battery capacity and/or power of solar generator.



5.6 Load and Save data to download it again in the software

You are able to reload data which you have saved before.

Comport: COM8		Load	Data
Read From Charge Controller	Data For Reloading If you save here, you	i can load the data in the software again	
Status			_
Current Value			
Datalogger			
Last Week			
Last Month			
Last Year			
System Performance			File or Folder delete
Clear CX/CXN Datalogger			
Load/Save Data			Load data
Save Data	current path:		
	Filename:		Save data
Menu Setting			
Night Light	Folder:		Create new main folder
Send To Charge Controller		N/	Create new folder

To do this you must click on the "Load data" window from the menu on the left. Choose the file you would like to view and click "load."

Fig. 5.5.2 Load data



5.7 The Charge Controller Settings Menu

The Menu Settings:

- Set the battery voltage that the charge controller should disconnect the load to protect the battery (Low Voltage Disconnect).
- State of battery charge buzzer on or off (when this function is on a buzzer beep by the different charge states of the battery)
- Lock the menu button (This feature allows you to disable the menu button on the controller)
- Select the appropriate battery type (GEL/AGM or liquid lead acid)
- Set load on or off (function only possible by the CXN and only when no night light function is activated)

Comport: COM8	Menu Setting			
Read From Charge Controller	Total Discharged Battery Protection			
(16 N)	C Low voltage disconnect current com	pensated 11.4 - 11.9V		
Status	C Low voltage disconnect current com	pensated 11.0 - 11.75V		
Current Value	C Low voltage disconnect current com	pensated/adaptive 11.0 - 12.2V		
Datalogger	C Low voltage disconnect 11.5V			
Last Week	C Low voltage disconnect 11.0V			
Last Month				
Last Year	Battery Type	CX/CXN Menu Button	Acoustic Battery State Of Charge Signal	
System Performance	battery type	CACAN INCID BUILDI	Acoustic battery state of enarge signal	
Clear CX/CXN Datalogger			Buzzer	
Load/Save Data				
Save Data	C Liquid Lead Acid	C Locked	Con	
Menu Setting	C Gel Or AGM Lead Acid	C Unlocked	C off	
Night Light				
Send To Charge Controller	Load settings (this function is only p This setting is only possible when no nig		C Load on	
Controller	This setting is only possible when no mi	gnuight function is selected	C Load off	

Fig. 5.7.1 Menu settings



5.8 Setting Nightlight Functions

You have three options when setting the nightlight function. This is the feature that can switch the load on during a period of time at night. The load will be switched off during the day.

- Load on/off as a period of time before sunrise (hours), a period of time after sundown (hours) or set a specific time for load on/off
- Load on the whole night
- No nightlight function (This selection allows you to turn the load on/off manually using the menu button on the controller)

Comport: COM8	Night Light Function			
Read From Charge Controller	Select Night Light Function:			
Status		Load On After Dusk	Load On Before Dawn	
	Load On/Off Time Setting			
Current Value	C Load is on the whole night	Time Period Setting	Time Period Setting	
Datalogger	C No Night Light Function	C 0 Hours	C 0 Hours	
	e No Night Light Function	 1 Hour 	 1 Hour 	
Last Week		C 2 Hours	C 2 Hours	
Last Month	Dusk Dawn	C 3 Hours	C 3 Hours	
Last Monut	10 10 10 10 10 10	C 4 Hours	C 4 Hours	
Last Year	day 🥑 🚿 night 🐃 🌔 day	C 5 Hours	C 5 Hours	
			OR	
System Performance			UN	
	After dusk, load is on Before dawn, load is for 1 hour on for 1 hour	Time Setting	Time Setting	
		C 9 : 22 pm	C 3 : 22 am	
Load Data		C 10 : 22 pm	C 4 : 22 am	
68 S S	Day/Night Threshold	C 11 : 22 pm	C 5 : 22 am	
Save Data	DayNight Threshold	C 12 : 22 pm	C 6 : 22 am	
Clear CX Datalogger	Choose the voltage of the solar generator	C 1 : 22 am	C 7 : 22 am	
cical cx bacalogyer	when chargecontroller should know it's day or night.	This function depends from duck and dou	vn time, but you only need to change it when you	
		use the Controller in a new location.	when you only head to change it when you	
Menu Setting				
mond security	C 1.0V C 1.6V C 2.1V			
Night Light	C 1.0V C 1.6V C 2.1V C 2.7V C 3.2V C 3.8V		Time Dawn 7 :15 am	
Courd To Charge	C 4.4V C 4.9V C 5.5V	set time for sunrise and sundown		
Send To Charge Controller	C 6.0V C 6.6V C 7.2V		Time Dusk 7 : 30 pm	

Load on hours before sunrise / hours after sundown

Fig 5.8.1 Setting Nightlight Function by Hours Before Sunrise or Hours After sundown

In this function you must set the hours before sunrise and hours after sundown when the load should be switched on. After this, click "Send to Charge Controller". Then click "Read from Charge Controller" in order to verify that your settings have been changed.

Setting Times for Sunrise and Sundown

For this function, you must first set the time of sunrise and sundown. Then, choose the time when you want the load switched on.

ocos

Comport: COM8	Night	Light Function	
Read From Charge Controller	Select Night Light Function:		
Status	Load On/Off Time Setting		
Current Value	C Load is on the whole night		
Datalogger	C No Night Light Function		
Last Week			
Last Month	Dusk Dawn		
Last Year	day 🤇 👶 night 🔨 🄇 day		
System Performance		Dawn	
			You only need to change the time settings for dusk and dawn when you use the Controller in a new location.
Load Data			use the controller in a new location.
Save Data	Day/Night Threshold	7 :15 am	
Clear CX Datalogger	Choose the voltage of the solar generator when chargecontroller should know it's day or night.	Dusk	
Menu Setting			

Fig 5.8.2 Setting Times for Sunrise/Sundown

Setting Controller for Load on in Morning or Evening

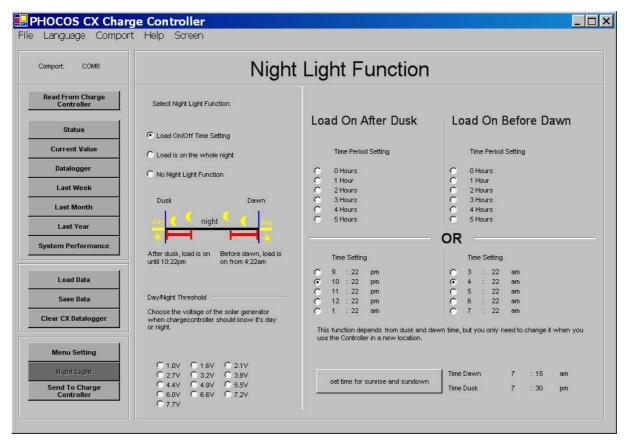


Fig 5.8.3 Setting the Time for Load On/Off





5.9 Use the help

If you have problems, use the help function on the menu bar.

🖶 help				
			Charge controller setting	
Communication	Set u	p the charge	e controller as you see in the following pictures	
ComPort setting	1		At first press the button long until you see the picture on the left side	
	2	3	Then press the button short	
	3	6	Press short	
	4		Press short	
	5	(T.T.)	Press short	
	6		Press short	
	7	67	Press short	
	8		If you see picture 8, press the button long until you see one of the pictures 8.1, 8.2 or 8.3 with the lightning symbol in it. Press the button long until the symbol is flashing.	
			8.1	
			8.2	
			8.3 Press the button short until you see the picture 8.3. Press the button long to save the setting and short again to leave menu point 8.	
	8			
	9	(::)	Press the button short and the CX/CXN is in the normal status again. Now the chargecontroller ist ready for communication.	

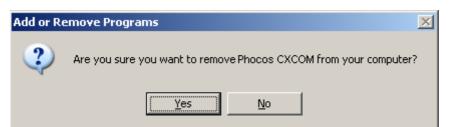
Fig 5.9.1 Help Menu – Setup Phocos CX/CXN controller



6. Removing Phocos CXCOM

To remove the software from your computer, go to "Start" menu – "setting" – "Control Panel" – "Add or remove programs", select "Phocos CXCOM " then click the "Remove" button.

🖬 Add/Remov	e Programs		
12	Currently installed programs:	Sort by: Name	•
Change cr	[Adobe Acrobat - Reader 6.0.2 Update	Size	5.66MB 📥
Remove Programs	🖄 Adobe Acrobat 5.0	Size	78.3MB
	📷 Adobe Atmosphere Player for Acrobat and Adobe Reader		
2	Adobe Download Manager 1.2 (Remove Only)		
Add New	强 Adobe Photoshop Album 2.0 Starter Edition	Size	15.5MB
Programs	🔛 Adobe Reader 6.0.1	Size	44.2MB
201 1	🐉 Borland Delphi 5	Size	127MB
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	EC Software TNT Screen Capture 2.1	Size	9.07MB
Add/Remove Windows Components	😥 Phocos CX software	Size	3.3MB
<u>e</u>	To change this program or remove it from your computer, click Change/Remove.	Change/Re	move
Set Program	🛃 Phocos CXI V1.0 Driver		
Access and Defaults	😭 HTML Help Workshop	Size	3.87MB
Deraults	X IAR Embedded Workbench Kickstart for MSP430 V2.21B	Size	1.58MB
	🔂 InstantCD/DVD		
	Intel(R) Extreme Graphics Driver	Size	2.16MB



Click "Yes", then wait for about 1 minute, the Phocos CXCOM software will be removed from your system.



# 7. Technical Support Questions

If you have any questions about the software, please contact:

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