

How to connect SmartLogger1000&2000 to NetEco Monitoring System

This document describe how to set the Ethernet parameters and Neteco IP server for Smartlogger1000&2000 in order to connect on NetEco monitoring portal.

Use the next IP Neteco server depending on where your PV plant is located:

-Germany:	18.194.52.221
-France:	52.58.95.67
-UK:	52.51.75.137
-Rest of Europe:	52.58.159.100
-Turkey:	52.29.145.247

1. NetEco settings through WebUi for Smartlogger1000&2000

Before connect on WebUi of Smartlogger1000&2000 you need to set your local area connection of your computer with an IP in the same range like Smartlogger1000&2000 (default IP 192.168.0.10):

Go to Windows start->Control Panel->Network and Internet->Network and Sharing Center->Change adapter settings->Double click on Local Area Connection->Double click on Internet Protocol Version 4 and set the IP 192.168.0.15 like below:

Diagnose this connection Rename this connection Change settings of this connection			
Array Networks VPN Adapter Disabled Array Networks VPN Adapter	Local Area Connection Network cable unplugged Intel(R) Ethernet Connection 1219		
Local Area Connection Properties	Internet Protocol Version 4 (TCP/IPv4) Properties		
Networking Authentication Sharing Connect using: Intel(R) Ethernet Connection I219-LM Configure This connection uses the following items: Image: Client for Microsoft Networks Image: Client for Microsoft Networks Image: Client for Microsoft Networks Image: Client for Microsoft Networks Image: Client for Microsoft Networks Image: Client for Microsoft Networks Image: Client for Microsoft CP/IPv6) Image: Client for Microsoft CP/IPv4) Image: Client for Cool Version 4 (TCP/IPv4) Image: Client for Cool Version 4 (TCP/IPv4) Image: Client for Cool Version 5 (Scovery Mapper I/O Driver Image: Client for Cool Version 4 (TCP/IPv4)	General You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings. Obtain an IP address automatically Obtain an IP address automatically Oute the following IP address: IP address IP address: IP address IP add		
Install Uninstall Properties Description Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks. OK Cancel	Ouse the following DNS server addresses Preferred DNS server: . Alternate DNS server: . Validate settings upon exit Advanced OK Cancel		



 Image: Sector Sector

Open the next link in a browser (Chrome or IE) <u>https://192.168.0.10</u> and login as advanced user with the default password "Changeme".

1.1 Set the Ethernet parameters

After you login on Smartlogger1000&2000 select Settings menu->Ethernet-> and set the IP in the same range with your router and the Default gateway need to be the same with the router IP and submit.

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L'ispire	Over View Monitoring Query Settings Maintenance	<u> </u>
= User Param.	Auto obtain IP	
Date&Time	Auto obtain IP Disable (configurable on the LCD)	
Plant	IP address	
Revenue	IP address 192, 168. 0, 10 Set an IP in range with the router	
🗆 Comm. Param.	Subnet mask 255, 255, 255, 0	1
Ethernet	Default gateway 192, 168, 0, 1 Same as the IP on the	
R5485	DNS Server Address	
EMI	Secondary DNS server U D 0 0	
Power Meter	Submit	
NetEco		
Modbus TCP		
IEC103		
IEC104		
= Extended Param.		
FTP		
Fmail		
Port Settings		
DO		
h Time 2018 04 24 20:13	Grid dispatch: P = 50% PF = 1.000	Ltd. 2017. All rights reserved.



Public

The default IP for Smartlogger1000 is 192.168.0.10 and if your local IP of your router is 192.168.0.1 you can leave the default Ethernet parameters like it is and the Smartlogger1000&2000 will be able to connect with the router. You can find the router IP on the label, in general the default IP of the routers is 192.168.0.1 and sometime 192.168.1.1. If your router IP is different set the Smartlogger1000&2000 like below example: Router IP: 192.168.1.1 Smartlogger1000 Ethernet settings: IP address: 192.168.1.10 Subnet mask: 255.255.255.0 Default gateway: 192.168.1.1(it is same with router IP)

1.2 Set the Neteco IP server

From the stings menu select Neteco and set the Neteco server accordingly with your PV plant location and submit. You can perform a network test if the option is available.

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Enspire	Over View Monitoring Query	Settings Maintenance	🔶 🔔 🔛 D 🔒 D
e User Param.	* NetEco		
Date&Time	NetEco server	52.58.159.100	
Plant	Port number	16100 (1~65535)	
Revenue	Address mode	Logical address 🔹	
Comm. Param.	SSL encryption	Fnable	
Fthornot	Second challenge authentication	Disable •	
DCARE		Submit Network Test	
ILS/IDJ	Security Certificate		
	Lipload CA certificate file	Choose File No file chosen	Unioad
Power Meter		Olivery File No Clasher	
NetLco	Upload local certificate file	Choose File No file chosen	Upioad
Modbus TCP	Upload key file	Choose File No file chosen	Upload
IEC103		Enable key password	
IEC104		Submit	
Extended Param.			
FTP			
Email			
Port Settings			
DO			
USB	•		
🏦 lime 2018-04-29 02:48			ॷ Copyright © Huawei Technologies Co., Ltd. 2017. All rights reserved.

After you set the Ethernet parameter and Neteco IP server contact the service team to check if the Smartlogger1000&2000 communicate with Neteco portal and ask them to create the PV plant and account for you.

2. NetEco settings through LCD screen of Smartlogger1000

2.1 Set the Ethernet parameter

Before you set the Neteco IP server on the Smartlogger1000 you need to set the connection with



a router and set the Ethernet parameters in order to connect Smartlogger1000 to internet:

Press enter and with the arrow choose Settings->Login as Advanced user->Com. Parameters->Ethernet and set the IP for Smartlogger1000 in the same range with your router. The default password is "000001".

	Settings->Login	Settings
		User Param. User Password
	User Name: <mark>Advanced User</mark> 🗢	Comm. Param.
	Password:000000	Restore Defaults
Settings		
Settings->Comm. Param.	Comm. Param>Ethernet	
RS485-1	Auto obtain IP <mark>:</mark> Disable	
RS485-2	IP address:192.168. 0. 10	
RS485-3	Subnet mask:255.255.255.0	
Ethernet	Gateway:192.168. 0. 1	
NetEco	DNS-1:192.168. 0. 1	
Modbus TCP	DNS-2: 0. 0. 0. 0	
IEC103	Submit	

2.2 Set NetEco IP server

After you set the Ethernet parameters set the Neteco IP server like below:

Press enter and with the arrow choose Settings->Login as Advanced user->Com. Parameters->Neteco and set the Neteco IP server accordingly with the PV plant location.

	Settings->Login	Settings
🖽 👥 💽 💆 👖 🖭 Settings	User Name: <mark>Advanced User</mark> ✦ Password:000000	User Param. User Password Comm. Param. Restore Defaults
Satting Norm Barran	Comm Param ->NetFco	
settings-/comm. raram.		
RS485-1	NetEco server:192.168. 8.101	
RS485-1 RS485-2	NetEco server:192.168. 8.101 Port number:16100	
RS485-1 RS485-2 RS485-3	NetEco server:192.168. 8.101 Port number:16100 Address mode:Logical address	
RS485-1 RS485-2 RS485-3 Ethernet	NetEco server:192.168. 8.101 Port number:16100 Address mode:Logical address SSL encrypt.:Enable	
RS485-1 RS485-2 RS485-3 Ethernet NetEco	NetEco server:192.168. 8.101 Port number:16100 Address mode:Logical address SSL encrypt.:Enable 2nd challenge:Enable	
RS485-1 RS485-2 RS485-3 Ethernet NetEco Modbus TCP	NetEco server:192.168. 8.101 Port number:16100 Address mode:Logical address SSL encrypt.:Enable 2nd challenge:Enable	

If you have the option Network test you can made a test to see if your Smartlogger1000 is connected to the server. The default port number is: 16100.

If this option is not available then call the service team to check if your Smartlogger1000 is



connected to the server and ask them to create the PV plant and account for you.

3. NetEco settings through SUN2000APP for Smartlogger2000

Search for SUN2000APP in one of the following app stores, download the installation package, and install the SUN2000APP by following the instructions.

- Huawei App Store (Android)
- Google Play (Android)
- App Store (iOS)

3.1 Set the Ethernet parameters

Enable the Bluetooth on your phone and connect on SUN2000APP as Advanced user (default password is "00000a") -> choose from main menu More-> Settings->Comm. Param.->Ethernet->set the IP and Default gateway like below.





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Settings		<	Ethernet		<		Ethe	rnet		
V Ucor Param		IP address			IP a	ddress				
		192.168.0.10			192.	168.0.1	D			
Data&Time		Subnet mas	sk		Sub	net ma	sk			_
Dataerinie		255.255.255.	0		_		IP Ad	dress		1
Plant		Default gate	eway		-					- -
		192.168.0.1			IP	Address				J.
Currency		Primary DN	S server			192	168	0	10	Ш.
		192.168.0.1			Su	ibnet Ma	sk			4
Comm. Param.		Secondary	DNS server			255	255	255	•	
		0.0.0.0			1 -	200	235	235	0	1
Ethernet					De	efault gat	eway			al.
						192	168	0	1	Ш.
RS485										4
						Cano	cel		ок	
NetEco										
Modbus TCP										
IEC103										

3.2 Set the Neteco IP server

From the "Settings" menu, "Comm.Param" select Neteco. Select Neteco server and set the Neteco IP server accordingly with your PV plant location. The default port number is 16100 and you can leave like it is.

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Settings	K NetEco	K NetEco
✓ User Param.	NetEco server	NetEco server
Data&Time	Port number 16100	Port number 16100
Plant	Address mode Logical address	Address mode
Currency	SSL encryption	
🗸 Comm. Param.	Second challenge authentication	52.58.159.100
Ethernet		Cancel OK
RS485		
NetEco		
Modbus TCP		
IEC103		

If you have the option Network test you can made a test to see if your Smartlogger2000 is connected to the server. The default port number is: 16100.

If this option is not available then call the service team to check if your Smartlogger2000 is connected to the server and ask them to create the PV plant and account for you.