

# GENSYS GENSYS MARINE

## **Connecting with Windows 7/8**



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A40	ZO 9	0246	

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### NOTE



Read this entire manual and all other publications pertaining to the work to be performed before installing, operating, or servicing this equipment. Apply all plant and safety instructions and precautions. Failure to follow instructions can cause personal injury and/or property damage.

Motors, turbines and any other type of generator must be equipped with protections (overspeed, high temperature, low pressure...) depending on the power plant).

Any changes of the normal use of the equipment can cause human and material damage.

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#### INFORMATION

You can download the most up-to-date version of this documentation and different other documentations relating to CRE technology products on our Web site <u>http://www.cretechnology.com</u>.

## Technical documentation history

Date	Version	Comments
April 2009	А	Initial revision.
Feb. 2013	В	Use of a CRE technology specific modem driver for Windows 7/8 communication.

You can download the most up-to-date version of this documentation and different other documentations relating to Gensys products on our Web site: <u>http://www.cretechnology.com</u>.

#### Documentations available on CRE technology Web site:

- ✤ A40 Z0 9 0020 x-EN is the Gensys technical documentation (this manual). This documentation is generally used for product integration.
- A40 Z0 9 0030 x- is the complete variable list with labels, units and limits in all languages, in EXCEL WORKBOOK format. This documentation is generally used as reference during the installation phase. It is generally called "EXCEL FILE".



### NOTE

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#### Note:

*This document describes how to connect a computer running Microsoft Windows 7 or Windows 8 operating system to a Gensys module using an RS232 serial communication port.* 

The same method is used under previous versions of Windows such as Windows XP and Windows Vista but the layout in the configuration panel and the dialog boxes may differ depending on the operating system.

## **1 NON-PNP MODEM CREATION**

- 1) Click on « Start>Control Panel>Device Manager »
- 2) Right click on your computer's name and click on « Add legacy hardware ».



- 3) The Add hardware wizard appears: click on « Next ».
- 4) Choose «Install the hardware that I manually select from a list (Advanced) » and click on « Next ».

Ъ	ne wizard can help you install other hardware
	The wizard can search for other hardware and automatically install it for you. Or, if you know exactly which hardware model you want to install, you can select it from a list.
	What do you want the wizard to do?
	$\odot$ Search for and install the hardware automatically (Recommended)
	<ul> <li>Install the hardware that I manually select from a list (Advanced)</li> </ul>
	A
1	

5) Choose the hardware type « **Modems** » and click on « **Next** ».

Add Hardware	
From the list below, select the type of hardware you are installing	
If you do not see the hardware category you want, click Show All Devices.	
Media Center Extender Memory technology driver Modems Multi-port serial adapters Network adapters PCMCIA adapters Portable Devices Portable Devices Ports (COM & LPT) Printers	•
< Back Next >	Cancel

6) Check « Don't detect my modem; I will select it from a list. » and click on « Next ».

Add Hardware Wizard	
Install New Modem Do you want Windows to detect your modem?	
Windows will now try to detect your r continuing, you should: 1. If the modem is attached to you computer, make sure it is turn 2. Quit any programs that may be the modem. Click Next when you are ready to con Im Don't detect my modem; I will sel	modem. Before our ed on. e using ntinue. ect it from a list.
	< Back Next > Cancel

7) Click on « **Have Disk** » button and browse to the CRE technology driver file "*mdm\_CRE.inf*".

Add Hardware Wiz	ard	
Install New M	odem	
Select an inst	the manufacturer and allation disk, click Ha	l model of your modem. If your modem is not listed, or if you have ve Disk.
Manufacturer		Models
(Standard Mod	em Types)	Standard 28800 bps Modem
	21 2	Standard 33600 bps Modem
		Standard 56000 bps Modem
This driver i	s digitally signed.	Have Disk
<u>Tell me why</u>	/ driver signing is imp	<u>portant</u>
		< Back Next > Cancel
🚔 Rechercher le f	ichier	×
Regarder dans :	ᠾ Téléchargement	s 🔹 🔮 😰 🛄 🔻
Ca		
Emplacements	200	
récents	50.5	
	mdm_CRE.inf	
Bureau		
Ordinateur		
oranacear		

Réseau

Nom du fichier :

Types de fichiers :

mdm\_CRE.inf

Informations de configuration (\*.inf)

•

-

Ouvrir

Annuler

8) Select "CRE technology – serial modem" and click on « Next ».

Add Hardw	vare Wizard
Install	New Modem
۵.	Select the manufacturer and model of your modem. If your modem is not listed, or if you have an installation disk. click Have Disk.
Models	
CRE te	chnology - Serial modem
	-
🔥 This	s driver is not digitally signed!
Tell	me why driver signing is important
	< Back Next > Cancel

9) Choose the COM port on which you connect Gensys and click on « **Next** ».

Add Hardware Wizard		
Install New Modem Select the port(s) you wa	int to install the modem on.	
	You have selected the following modem:	
	On which ports do you want to install it?	
	C All ports © Selected ports	
	COM1 COM2	
	< Back Ne:	t > Cancel

10) Click on « Finish » button.

L'installation du moo	lem est terminée.
	Votre modem a été configuré correctement.
	Si vous voulez modifier ces paramètres, double-cliquez sur l'icône Options de moderns et téléphonie du Panneau de configuration, sélectionnez l'onglet Moderns puis cliquez sur Propriétés.

## **2 REMOTE ACCESS CONNECTION CREATION**

- 1) Click on « Start>Control Panel>Network and Sharing Center »
- 2) Click on « Connect to a network ».

	Network and internet • Network and Sharing Center	Search	in Control Panel
ontrol Panel Home	View your basic network information a	nd set up connections	
lanage wireless networks	i 🔍 — 🌗	· 🎱	See full map
hange adapter settings	TESLA7 Netwo	rk Internet	
hange advanced sharing ettings	(This computer)		
	View your active networks		<ul> <li>Connect or disconnect</li> </ul>
	Network	Access type: Internet	
	Work network	Connections: 📱 Local Are	ea Connection
	Set up a new connection or network Set up a wireless, broadband, dial-up, ad Connect to a network Connect or reconnect to a wireless, wired	hoc, or VPN connection; or set up a	a router or access point. on.
	Choose homegroup and sharing options		
	Access files and printers located on other	network computers, or change sha	aring settings.
ee also	Troubleshoot problems		
lomeGroup	Diagnose and repair network problems, o	or get troubleshooting information.	

On Windows 7 systems, choose the option « Set up a dial-up connection ». On Windows 8 systems, select "Connect to a workplace" and then select "Dial directly".

hoose	e a connection option	
	Connect to the Internet	
	Set up a wireless, broadband, or dial-up connection to the Internet.	
	Set up a new network	
-	Configure a new router or access point.	
	Manually connect to a wireless network	E
2	Connect to a hidden network or create a new wireless profile.	
	Connect to a workplace	
	Set up a dial-up or VPN connection to your workplace.	
dan	Set up a dial-up connection	-
4	Connect to the Internet using a dial-up connection.	

4) Choose the modem you have created previously.

Which modem do you want to use?	
USR 33600 bps Modem Modem	
CRE technology - Serial modem Modem	
Help me decide	

- 5) Type « **123** » in the field « **Dial-up phone number** ».
  - You can name your connection « **Gensys** » in field « **Connection name** ».
  - Tick checkbox "Allow other people" if this connection will be used by different users.

Type the information	from your Internet service provide	er (ISP)
Dial-up phone number:	123	Dialing Rules
<u>U</u> ser name:	user	
Password:	•••	
	Show characters <u>R</u> emember this password	
Connection <u>n</u> ame:	Gensys	
🛞 🔽 <u>A</u> llow other people t	o use this connection	
This option allows ar	nyone with access to this computer to use th	is connection.

Note: you may need to activate dialing rules, either by using "Dialing rules" in the window above or through control panel section "Phone and Modem". See example in the screenshot below.

ialing Rules Moder	s Advanced	
The list belo	v displays the locations you have specified. Sel	ect the
Locations:	which you are dialing.	
Location	Area Code	
My Location	717	
	New Edit	ste

- Click on « **Connect** »: connection will fail because it is not yet fully setup.
- Click on «Set up the connection anyway » and then on « Close ».

Create a Dial-up Connection	
<ul> <li>Create a Dial-up Connection</li> <li>Connection failed with error 633</li> <li>Connection failed with error 633</li> <li>The modem (or other connecting device) is already in use or is not configured properly.</li> <li>Try again</li> </ul>	*
Set up the connection anyway	
	Cancel
Create a Dial-up Connection	
The connection to the Internet is ready to use	
To connect to the Internet next time, left-click the network icon in the taskbar and click the connection you just created.	

- 6) Click on « Start>Control Panel>Network and Sharing Center »
- 7) Click on « **Connect to a network** », choose the connection you have just created with right click then click on « **Properties** ».



- 8) Check the modem is ticked then click on « **Properties** ».
- 9) Check that maximal speed is set to 19200bits/s, uncheck options « Activate the modem error control » and « Activate modem compression » and click on « OK ».

Properties	×
General Options Security Networking Sharing	
Connect using:	
CRE technology - Serial modem (COM1)	
Con	figure
Phone number	
Area code: Phone number:	ates
Country/region code:	Modem Configuration
	CRE technology - Serial modem (COM1)
Use dialing rules Dialing	<b>*</b>
	Maximum speed (bps):
	Modem protocol
privacy statement	Hardware features
	Enable hardware flow control
	Enable modern compression
	Enable modem speaker
	OK Cancel

10) Click on « **Options** » tab and tick only the dialing option « **display progress while connecting** ».

Redialing options (if displayed)

- **3** attempts
- **1** minute delay between each attempt
- idle time before hanging up « never »
- untick option « Redial if line is dropped »

	Properties	×
General Options	Security Networking	Sharing
Display progress Prompt for name Include Window Prompt for phon Idle time before har	s while connecting and password, certific is logon domain e number nging up:	ate, etc. never ▼
		OK Cancel

11) Click on « **PPP Settings** » and uncheck all options.

PPP Settings
Enable LCP extensions
Enable software compression
Negotiate multi-link for single-link connections
OK Cancel

- 12) Choose « Security » tab:
  - Select « Optional encryption » in the data encryption list and check "Unencrypted password (PAP)".

📰 Properties 💌
General Options Security Networking Sharing
Data encryption:
Optional encryption (connect even if no encryption)
Authentication
Use Extensible Authentication Protocol (EAP)
· · · · · · · · · · · · · · · · · · ·
Properties
O Allow these protocols
Unencrypted password (PAP)
Challenge Handshake Authentication Protocol (CHAP)
Microsoft CHAP Version 2 (MS-CHAP v2)
Automatically use my Windows logon name and password (and domain, if any)
Interactive logon and scripting
Show terminal window
Run script:
Edit Browse
OK Cancel

13) Choose « Networking » tab to select only « Internet Protocol version 4 (TCP/IPv4) » checkbox and click on « Properties » button.

Properties X
General Options Security Networking Sharing
This connection uses the following items:     Internet Protocol Version 6 (TCP/IPv6)  Internet Protocol Version 4 (TCP/IPv4)  File and Printer Sharing for Microsoft Networks  Client for Microsoft Networks
Install Uninstall Properties Description Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.
OK Cancel

Tick option « Use the following IP address » and type « 192.168.11.2 ». (Gensys IP address is « 192.168.11.1 »).

Internet Protocol Version 4 (TCP/IPv4) Properties	3
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	
Use the following IP address:	
IP address: 192 . 168 . 11 . 2	
Obtain DNS server address automatically	
O Use the following DNS server addresses:	
Preferred DNS server:	
Alternate DNS server:	
Advanced	
OK Cancel	

14) Click on « Advanced », choose « IP Settings » tab and tick only « Automatic metric ».

Advanced TCP/IP Settings
IP Settings DNS WINS
This checkbox only applies when you are connected to a local network and a dial-up network simultaneously. When checked, data that cannot be sent on the local network is forwarded to the dial-up network.
<ul> <li>Use default gateway on remote network</li> <li>Disable class based route addition</li> </ul>
Automatic metric
PPP link Use IP header compression
reen K Cancel

15) Choose « DNS » tab and make sure option « Register this connection's addresses in DNS » is not checked.

Advanced TCP/IP Settings
IP Settings DNS WINS
DNS server addresses, in order of use:
t
Add Edit Remove
The following three settings are applied to all connections with TCP/IP enabled. For resolution of unqualified names: Append primary and connection specific DNS suffixes Append parent suffixes of the primary DNS suffix
Append these DNS suffixes (in order):
t J
Add Edit Remove
DNS suffix for this connection:
<ul> <li>Register this connection's addresses in DNS</li> <li>Use this connection's DNS suffix in DNS registration</li> </ul>
OK Cancel

16) Choose « WINS » tab and select option « Disable NetBIOS on TCP/IP ».

Advanced TCP/IP Settings		
IP Settings DNS WINS		
WINS addresses, in order of use:		
Add Edit Remove		
If LMHOSTS lookup is enabled, it applies to all connections for which TCP/IP is enabled.  TCP/IP is enable LMHOSTS lookup Import LMHOSTS		
NetBIOS setting  Default: Use NetBIOS setting from the DHCP server. If static IP address is used or the DHCP server does not provide NetBIOS setting, enable NetBIOS over TCP/IP.		
Enable NetBIOS over TCP/IP		
Disable NetBIOS over TCP/IP		
reen K Cancel		

17) Click on « OK » to save new settings.

## **3 UPDATING « HOSTS » FILE**

- 1) Look for the « hosts » file in C:\Windows\System32\drivers\etc\hosts
- 2) Right click on the file and select « **Open** ».



3) Edit the file with « Notepad »

Adobe Reader	Bloc-notes
Adobe Systems Incorporated	Microsoft Corporation
Internet Explorer	Lecteur Windows Media
Microsoft Corporation	Microsoft Corporation
Paint	Visionneuse de photos Windows
Microsoft Corporation	Microsoft Corporation
Windows Media Center	WordPad
Microsoft Corporation	Microsoft Corporation

- 4) Add the following line to easily access Gensys embedded Web site:
  - « 192.168.11.1 gensys » with spaces between IP address and "gensys".
  - Save the file (Ctrl+s).
  - If the connection is established, run your Web browser and type the following URL in the address bar: <u>http://gensys/</u>



5) If your hosts file is write protected (read only), copy it into a new location with write attribute, type in the line « 192.168.11.1 gensys » then replace the original file with this new one.

- 1) Run « Internet Explorer »
- 2) Click on « Tools>Internet Options>Security »



3) Click on « Trusted sites » tab and then on « Sites » button.

Internet Options			
General Security Privacy Content Connections Programs Advanced			
Select a zone to view or change security settings.			
Internet Local intranet Trusted sites Restricted sites			
Trusted sites Sites Sites			
Security level for this zone			
Allowed levels for this zone: All			
Prompts before downloading potentially unsafe     content     Unsigned ActiveX controls will not be downloaded			
Enable Protected Mode (requires restarting Internet Explorer)			
Custom level Default level			
Reset all zones to default level			
OK Cancel Apply			

4) Type Gensys address (<u>http://gensys</u>), make sure that "Require server verification (https)" is not checked and click on « Add » button and then on « Close » button.

Trusted sites	X	
You can add and remove websites from this z this zone will use the zone's security settings.	one. All websites in	
Add this website to the zone:		
nttp://gensys	Add	
Websites:	_	
http://unigen	Remove	
Require server verification (https:) for all sites in this zone		
	Close	

- 5) Close the Web browser.
- 6) Establish the modem connection then type the Gensys adress (<u>http://gensys/</u>) in your Web browser.



7) Restart the Web browser and type Gensys URL (<u>http://gensys/</u>) in your Web browser address bar.



8) Check the correct display of java applets in « **Information** » page of Gensys embedded Web site: real time values should be displayed on the page (Battery voltage is equal to 23.9V on the example below).

P. lines power: 156	= 0 क्ष
Generator kW :18	= 0 kW
Generator freq: 20	= 0.00 Hz
Gen. cos(phi) :21	= 0.00I
Bus voltage : 22	= 1 v
Valid mains kW: 60	= 0 kW
Bus frequency : 23	= 0.00 Hz
Mains cos(phi): 58	= 0.00I
Engine speed : 33	= 0 rpm
Batt voltage : 41	= 23.9v

Save

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