



DEC 2009

***Procedure to connect Unigen
to computer***

Application note A51Z190015A-En

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A51 Z1 90015 A-En.doc

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Introduction

This procedure will describe the way to connect one Unigen to computer.

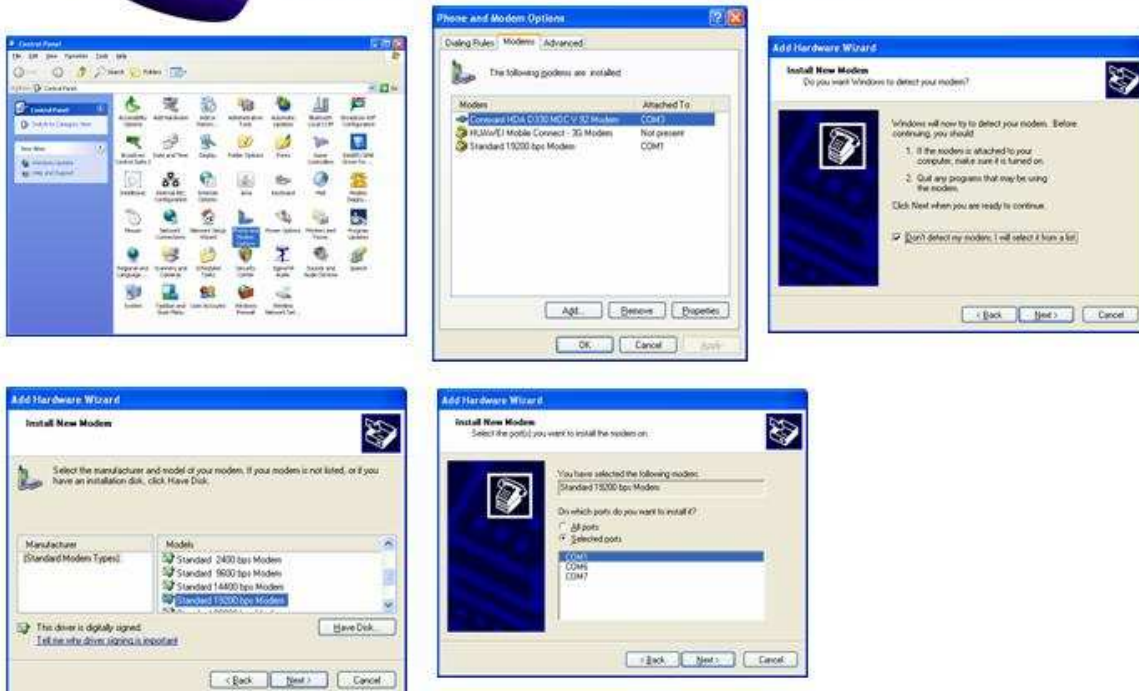
UNIGEN SERIAL PORT

- **Data Transfer occurs using a straight serial cable (with 9 wires DB9 connectors)**
- **A few steps are required to configure a PC before controlling a Unigen**
- **Check the network properties**
- **Install the modem**
- **Create a Dial-Up Networking Connection**
- **Set-up the internet properties**
- **Communication between the Unigen and the PC is carried out by Dial-Up Networking**
- **The PC must be configured to communicate with a 19.2K bps modem with TCP/IP networking enabled**



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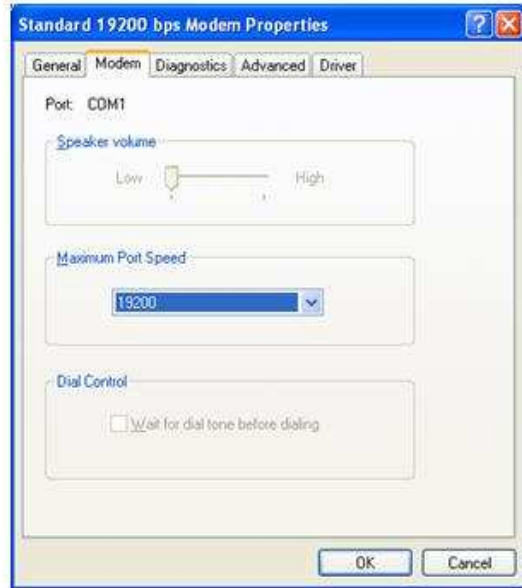
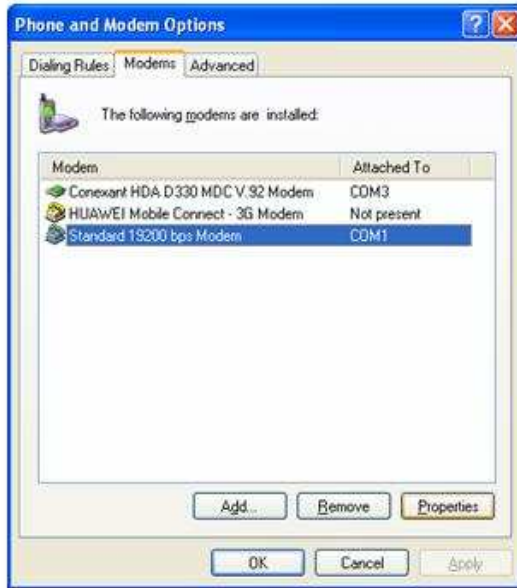
INSTALL THE MODEM



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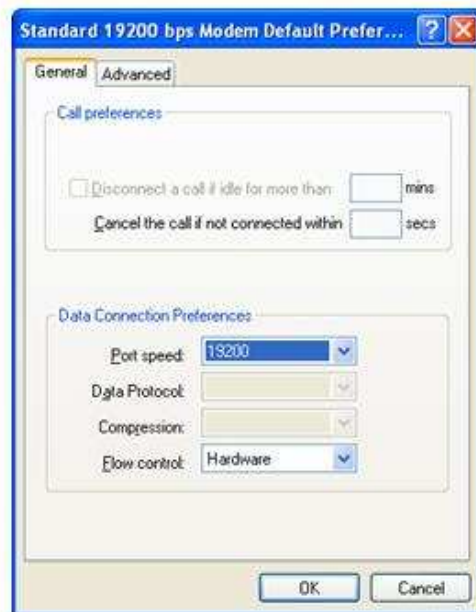
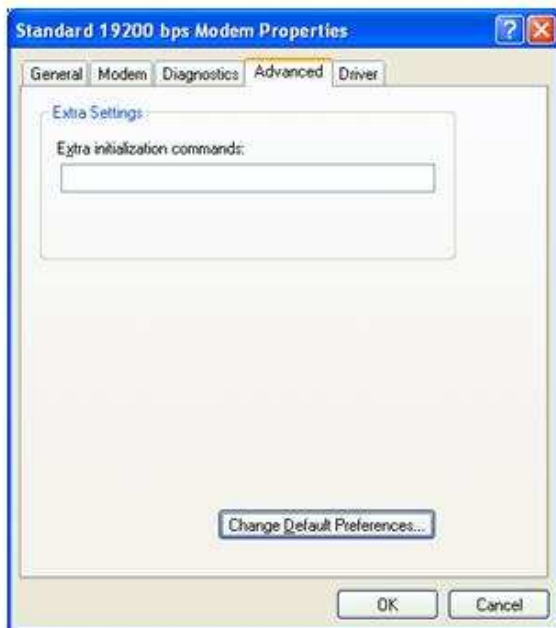
MODEM PROPERTIES



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MODEM PROPERTIES



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MODEM PROPERTIES



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CHECK NETWORK PROPERTIES

Step 1



Step 2



Step 3



Step 4



Step 5



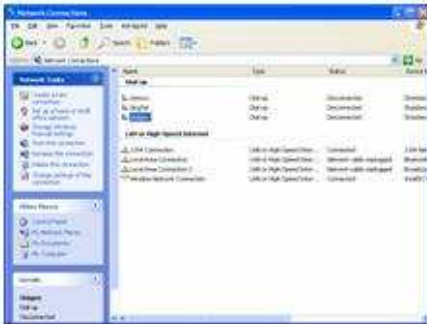
Step 6



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SET UP THE NW PROPERTIES



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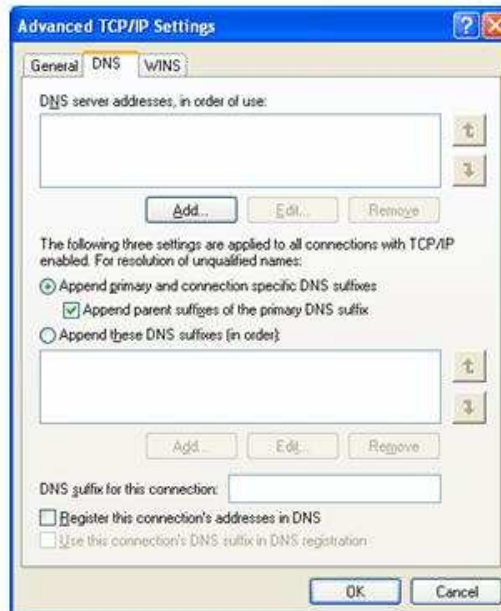
SET UP THE NW PROPERTIES



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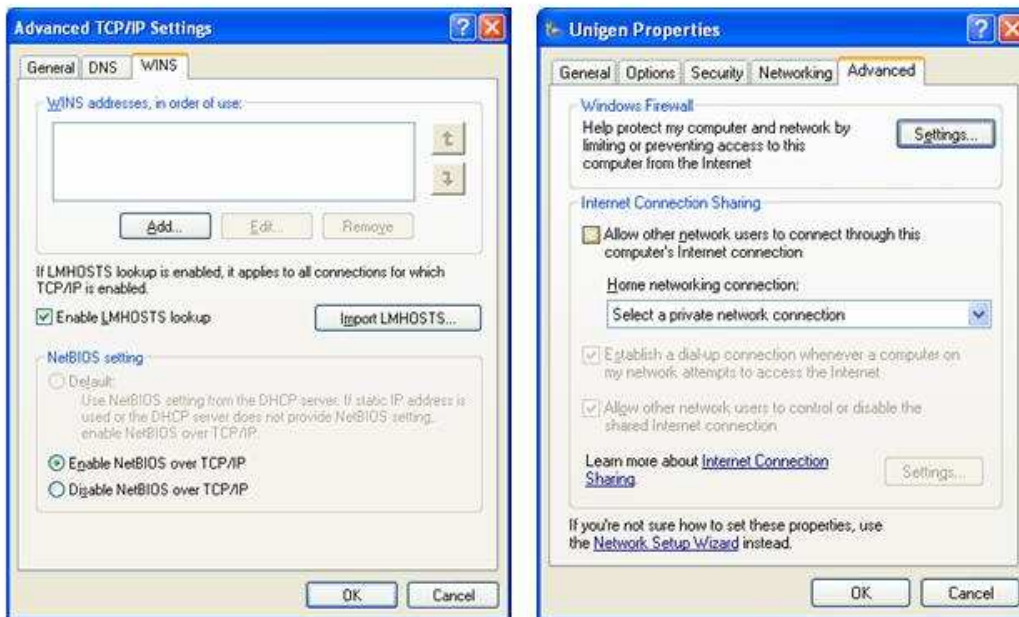
SET UP NW PROPERTIES



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SET UP THE NW PROPERTIES



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SET UP INTERNET PROPERTIES

Execute the program in the CD msjavwu_.exe



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SET UP INTERNET PROPERTIES



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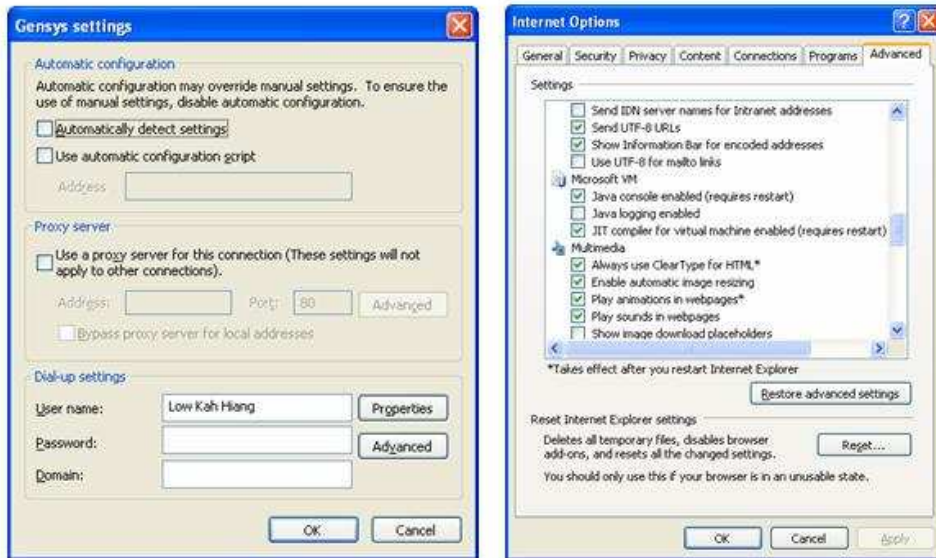
SET UP INTERNET PROPERTIES



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SET UP INTERNET PROPERTIES

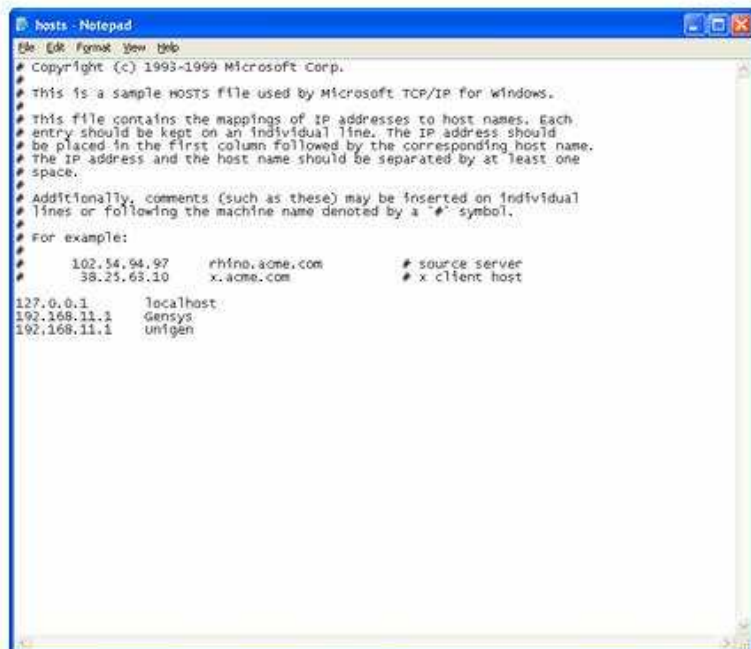


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EDITING THE HOST FILE

Search for a file in C drive called Hosts



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A51 Web site

Password :

Send

<http://192.168.11.1>

[Information page](#)

CRE TECHNOLOGY THE CREACTIVE RESPONSE



DISPLAY ELECTRICAL 1

Electrical meters

Power Gen : Waiting : 0s

Generator global view

V1=	0 V	U31=	0 V	I1=	8 A	Speed out =	Stand by
							0
V2=	0 V	U23=	0 V	I2=	0 A	AVR out =	Stand by
							0
V3=	0 V	U12=	0 V	I3=	0 A		
P1=	0 kW	Q1=	0 kVAR	cosφ1=	1.00I		
P2=	0 kW	Q2=	0 kVAR	cosφ2=	1.00I		
P3=	0 kW	Q3=	0 kVAR	cosφ3=	1.00I		
P=	0 kW	Q=	0 kVAR	cos(φ)=	0.00I		
kW(%)=	0.0 %	kVAR(%)=	0.0 %	F=	0.00 Hz		

CRE TECHNOLOGY THE CREACTIVE RESPONSE



DISPLAY ELECTRICAL 2

Bus global view

V1 =	0 V	U31=	0 V
V2 =	0 V	U23=	0 V
V3 =	0 V	U12=	0 V
F=	0.00 Hz		

CRE TECHNOLOGY THE CREACTIVE RESPONSE



DISPLAY IN/OUT/POTENTIOMET

Inputs/Outputs/Potentiometer

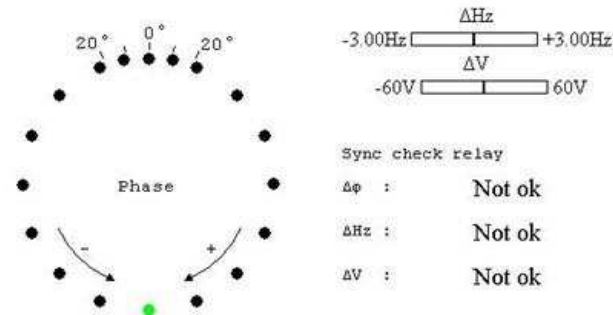
Hardware type of UNIGEN*	1	CANBUS: nb of genset on buscan:02193*	1
	Digital inputs	Analog inputs: potentiometers	Outputs
UNIGEN ILS (A51Z3) UNIGEN Standard (A51Z2) UNIGEN Plus (A51Z1)	DI break in : 0	AI Speed setpt : -0.01 Hz AI NomK/LSGain : 52.2% AI Load pulse : 0%	OUT -kW relay : 0 OUT start rel : 1 OUT Speed Mode : 0 OUT Spd devia : -25 G1 Speed text : Stand by
UNIGEN Standard (A51Z2) UNIGEN Plus (A51Z1)	DI Sync IN : 0 DI Droop : 0 DI Unload : 0 DI SetUnavala : 0 DI Slave input : 0 DI Sel speed : 0	AI I sync : 96% AI P sync : 96% AI RampTime : 10 s	OUT Trip relay : 0 OUT SyncOK rel : 0 OUT AVR mode : 0 OUT AVR devia : 0 G1 AVR text : Stand by
UNIGEN Plus (A51Z1)	DI Mains paral : 0 DI Command Mod : 0 DI Sel regulat : 1	AI KW setpoint : 5.0%	
UNIGEN ILS (A51Z3) UNIGEN Plus (A51Z1)	AI In Pines : 0.0%		

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DISPLAY SYNCHRONIZATION

Not applicable for UNIGEN ILS: A5123



	Generator
Speed out =	Stand by 0
AVR out =	Stand by 0

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DISPLAY INFORMATION PAGE

Information page

Power Gen : Waiting : 0s

G1 V1	:10000	0 V
G1 U12	:10005	0 V
G1 I1	:10006	4 A
G1 kW	:10019	0 kW
G1 kVAR	:10020	0 kVAR
G1 cos(phi)	:10022	0.001
G1 freq	:10021	0.00 Hz
G1 kW %	:10025	0.0 %
G2 V1	:20000	0 V
G2 freq	:20021	0.00 Hz

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CONFIGURATION ELECTRICAL

Electricals Settings

GENERATOR:

G1 Nominal kW :10023= 904 kW

G1 PT ratio :11001=

G1 CT1 ratio :11002=

G1 CT2 ratio :11003=

G1 CT3 ratio :11004=

G1 kW low lim :11007= %

G1 LV -kW :11009= %

G1 TM -kW :11010= %

SYNCHRONISATION:

Voltage match :1040= V (0 -> 50)

Freq. match :1041= Hz (0.00 -> 0.20)

Phase match :1042= ° (0 -> 30)

LOAD DEPENDANT START:

G1 LV <kW :11245= %

G1 TM <kW :11246= %

G1 LV >kW :11247= %

G1 TM >kW :11248= %

BUS:

G2 PT ratio :21001=

POWER PLANT:

DeadBus delay :1033= s

StrtSlve delay:1034= s

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SYSTEM SETTINGS

Serial number / Soft version

A51 -> PC fi

PC -> A51 fi

Flash all parameters

Esc

Information page

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END

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