

genesis

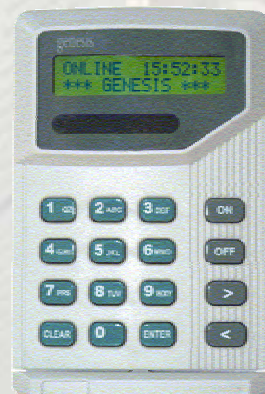
*Security
Access control
Home automation
Building automation*

Genesis v2 Technician Software

Getting Started

genesis

Genesis Electronics Australia Pty Ltd
<http://www.genisiselectronics.com.au>



System Requirements

Genesis Technician Software

In keeping with the high standard of design and development for Genesis products, the Genesis Technician Software has been specially developed, utilizing the latest multi-tasking technology.

This allows the Genesis Technician Software and the Genesis hardware devices to perform at the high standard expected from today's modern technology.

With this in mind, some minimum system requirements are required when installing and using the Genesis Technician Software.

Minimum Requirements

The minimum recommended PC processor is a Pentium or equivalent, running at a clock speed of 233MHz or greater. The Genesis Technician Software requires a minimum of 16Mb of RAM, and a minimum free hard disk space of 5 Mb – not including database files.

The recommended operating systems include Windows® 98/2000/XP and Windows NT 4. The installation CD means that a CD-ROM drive is required, and the display is recommended to be either 800x600 or 1024x768 with 256 colours.

In order to direct connect to a panel, a serial RS232 communication port is required. On some new laptop computers, this may require the use of a USB to RS232 convertor.

To summarise:

Minimum Personal Computer system requirements for Genesis Technician Software

Processor	Pentium or equivalent
Speed	233MHz
Memory	16MB
Free hard disk space	5 MB
Operating system	Windows® 98/2000/XP or Windows NT 4
Drives	CD-ROM drive
Display	800x600 or 1024 x 768, 256 colours
Peripherals	Spare serial RS232 communication port.

To direct connect to a Genesis device, the following parts will be required:

- GEN150 – Genesis Computer connection Lead
- Genesis distributor recommended USB to RS232 convertor (optional)

Please note:

Genesis Technician Software will not operate on Windows 3.11® or Windows 95®.

Please contact your Genesis distributor for a recommended USB to RS232 convertor

Software Installation

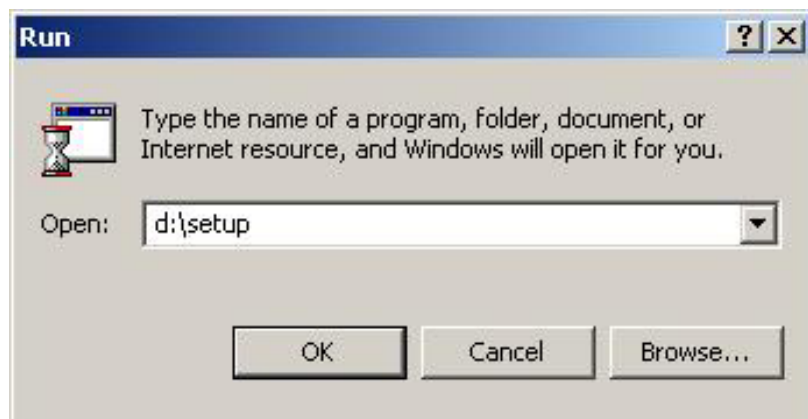
CD ROM Installation

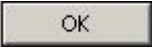
VARIATIONS MAY OCCUR TO THE EXAMPLES LISTED, DEPENDING ON YOUR OPERATING SYSTEM AND IT'S CONFIGURATIONS.

- 1) Insert the Genesis Technician Software CD in your computers CD Drive.
- 2) Close the CD Drive
- 3) The installation program should begin automatically – Go to Step 8
- 4) If installation does not begin, select the  button from the Windows Taskbar.

- 5) Select  Run...

- 6) Type “d:\Setup” – Assuming your CD Drive is called **d: drive**.



- 7) Press  to start installation.
- 8) The installation program will prompt you through the installation process

To navigate through the installation process, use the *Next* button to go forward, or *Back* to go backwards.

By default, the installation program will install the Genesis Technicians Software into the "c:\Program Files\Genesis Electronics Australia Pty Ltd\Genesis Version 2.0\" directory. It is possible to install the software onto a network drive or another directory location.

Please note:

Always use the Genesis Setup Program to install the Genesis Technicaian Software. Never just copy the Genesis Technician Software from one computer to another.

To uninstall the Genesis Technician Software, always use the Uninstall function from within the Windows control panel.

Getting Started

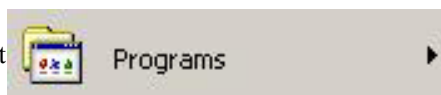
Starting the Genesis Technician Software

- When installed, the Genesis Technician Software can be used by pressing the



button.

- Select



- Then select the Genesis V2 folder.

- To start the Genesis Technician Software, click on:



Genesis

Please note:

*The above procedure is assuming the default installation locations are used.
If a different folder name or location has been specified, locations will vary.*

*The application used to start the Genesis Technician Software is Genesis.exe.
This file must be located within the directory where the Setup program installed to.*

Opening a new Database

When the Genesis Technician Software is started, the program requires you to select a database to work with.

To create a new database to work with, all that needs to be done is type a new file name, and select open.

The Genesis Technician Software will then prompt to create a new database, using the name that has been entered.

Please note:

*When a new database is created, the Genesis Technician Software will use default settings from the 'Default80.ref' file located in the installed directory.
It is possible to create your own default file, as long as it is located within the installed directory, and is still called 'Default80.ref'.*

File Management

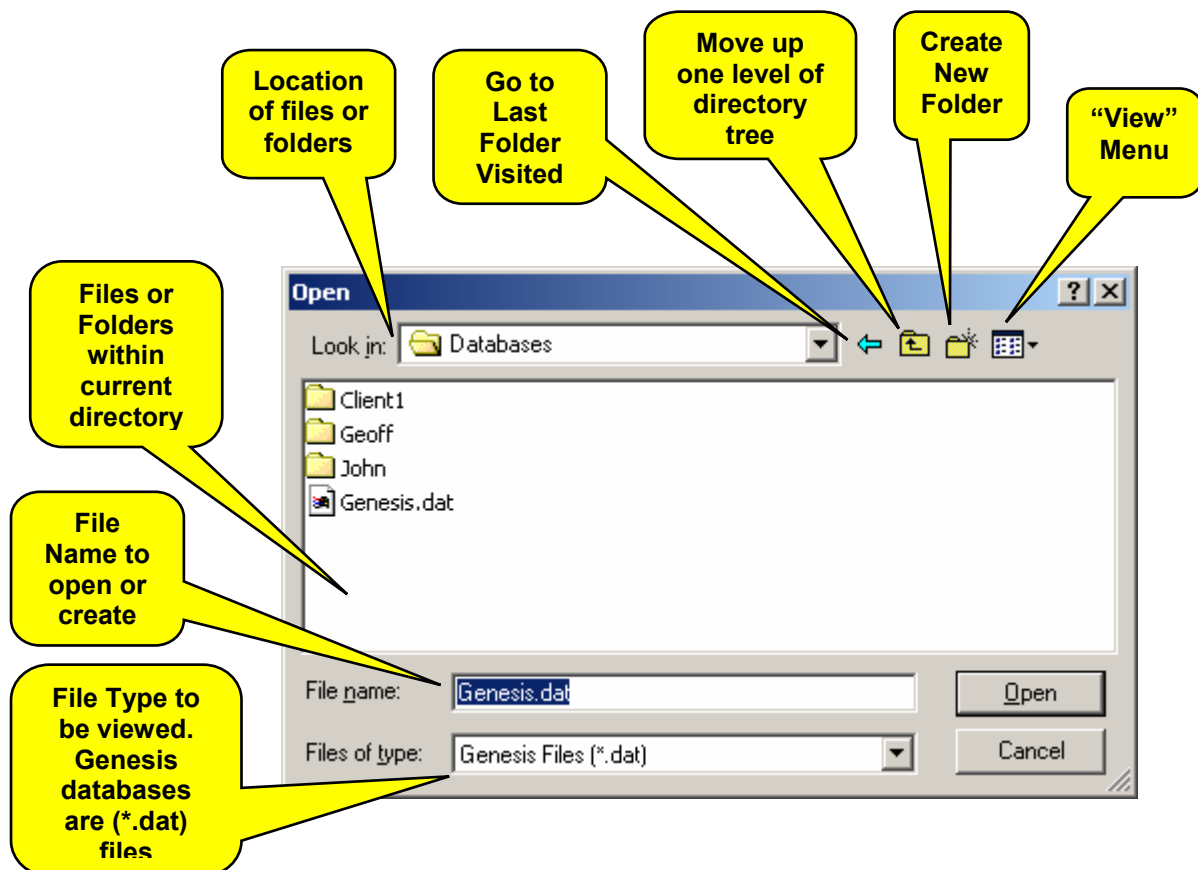
Multiple Sites

The Genesis Technician Software is designed to program and manage any number of sites and panels. To this end, some form of file management needs to be applied to allow the installer to keep track of any installed Genesis databases.

It is recommended that each database be allocated its own folder within the Genesis directory. This allows for easy identification of each database, as well as separating any event logs or system generated messages recorded for the database.

Do not use the Genesis Technician Software installed directory to store multiple client databases, or store multiple databases within the one folder or directory. This creates confusion in managing your databases, and can lead to problems when reviewing event logs.

With this in mind, the Genesis Technician Software allows you to manage your databases and folders, from within the Open dialogue box.



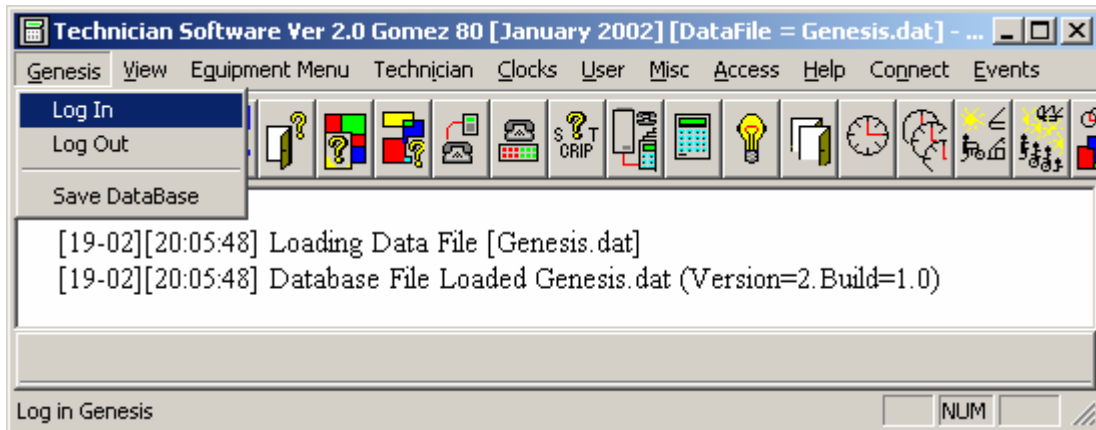
Using the right mouse button, it is possible to use standard Microsoft Windows tools such as Cut, Copy, Paste and Rename to create directory's and move files within these directory's.

Logging In

After selecting a database to create or open, it is necessary to Log In to the Genesis Technician Software. This is a security precaution, to protect the sensitive information contained in each database.

Each client database can have a separate Log In allocated to it. This enables an increased level of protection for each client database.

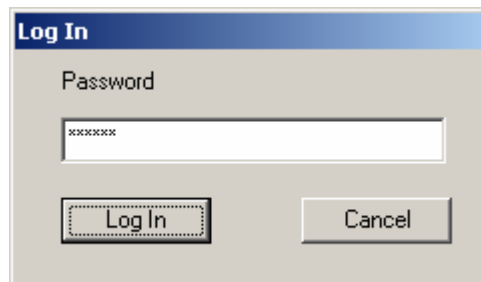
1. From the *Genesis* menu, select *Log In*.



2. When the Log In dialogue box is displayed, enter the user 101 – PC Link - pin code (Pin number only), then press the *Log In* button.

The default Log In code for a new database is 1001.

To log into an existing database, where the user 101 – PC Link – code is unknown, it is necessary to use the programmed serial number for the Master Unit.

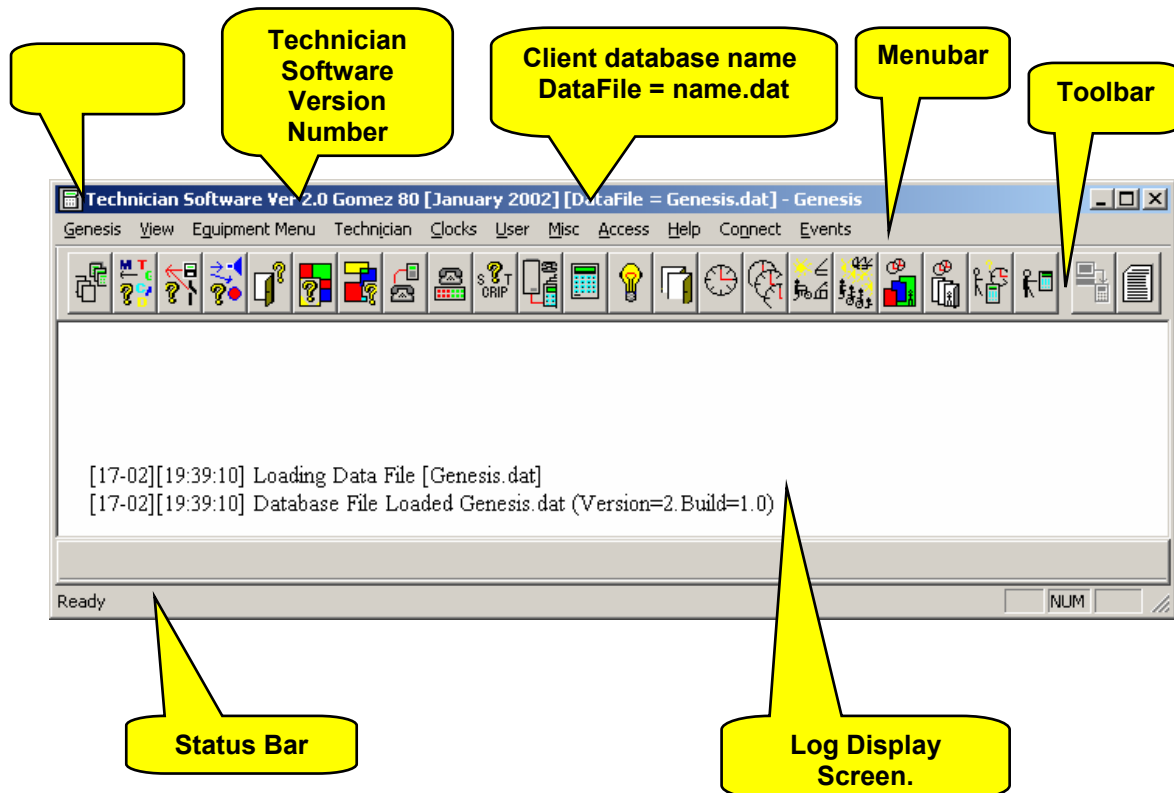


3. After a valid Log In code is entered, the majority of the *icons* on the toolbar will be highlighted, along with the the menubar options

Please note:

Some menu options will not be available until after the Genesis Technician Software has been connected to a Genesis Master Unit.

The Main Screen

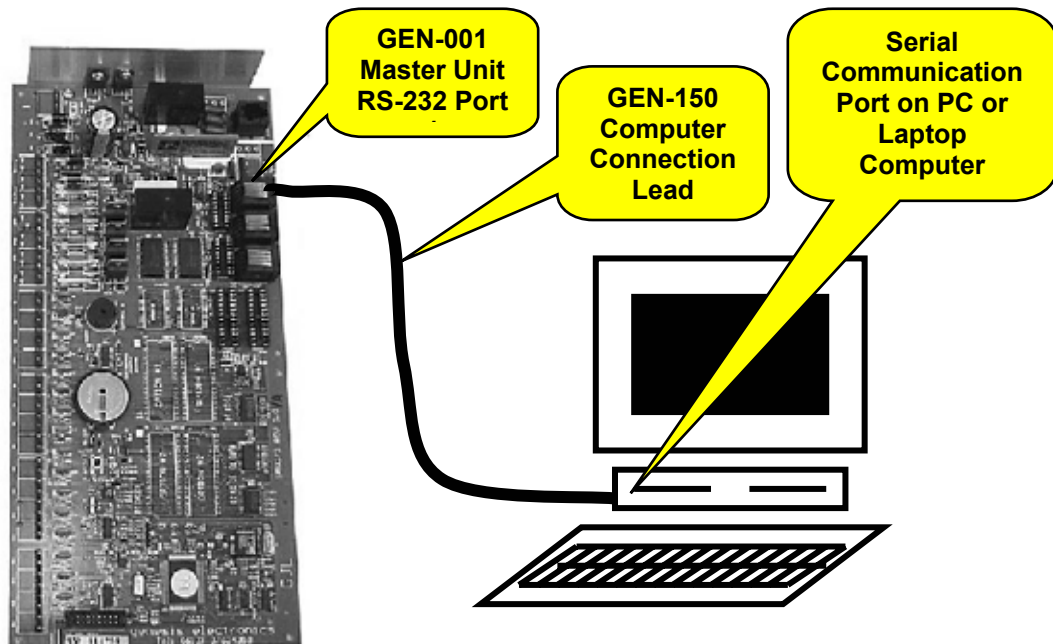


Titlebar:	Indicates information regarding the software version and client database name, aswell as allowing standard Windows functionality, including maximize, restore, minimize and close.
Version Number:	Provides the Genesis Technician Software version number. This is often required information when asking for technical support.
DataFile:	This provides the name of the client database currently open in the Genesis Technician Software.
Menubar:	This provides access to all of the Genesis Technician Software functions and options.
Toolbar:	This allows quick and easy access to the most used Genesis Technician Software functions, through a simple icon toolbar.
Log Display:	The majority of the screen provides a log of information sent to Genesis hardware, aswell as providing an output for the event log if required.
Status Bar:	Displays simple descriptions of menu or icon functions, if the mouse is held over the menu or icon button.

Connecting to a Master Unit

Equipment Summary

In order to connect to a Genesis Master Unit, it is necessary to use a GEN-150 Computer Connection Lead. This lead connects between the Genesis MU RS232 Port 1, and the Serial Communication Port on your PC or Laptop Computer.



If your PC or Laptop does not have a Serial Communication Port, and only has a USB Port, it will be necessary to use a USB to RS-232 Convertor in when connecting to a Genesis Master Unit. Please contact your Genesis distributor for a recommended USB to RS-232 Convertor.

The Genesis Master Unit must be powered up in order to connect to it using a PC or Laptop Computer.

Connecting to a Master Unit

Addressing your database

Once you have started the Genesis Technician Software and logged into the client database, it is necessary to check three settings before connecting to the Genesis Master Unit.

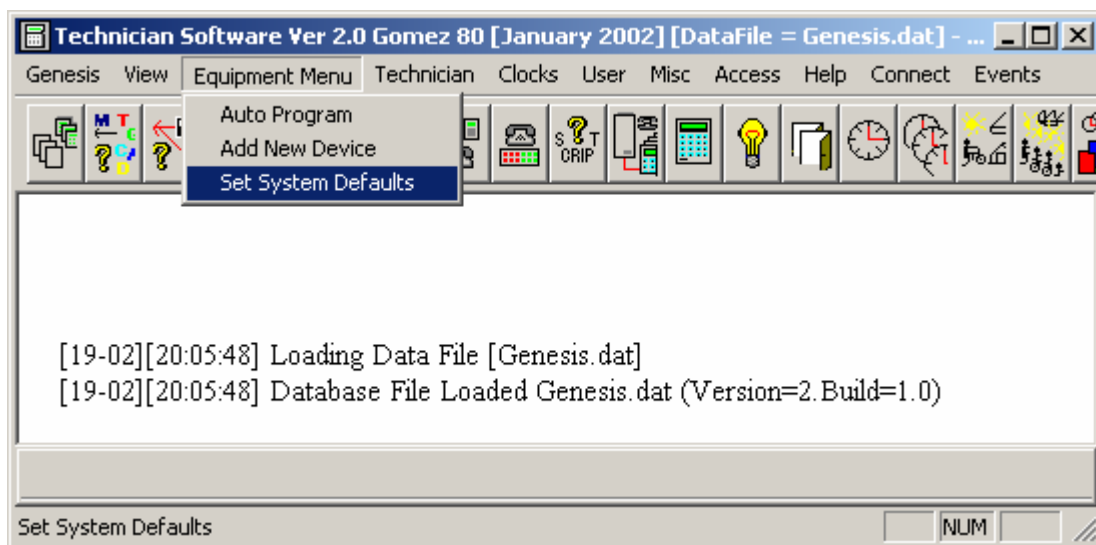
Each Genesis client database can have separate communication settings, so if you can't connect to a panel, it is most likely because of one of these settings.

The first thing to check is that you have set the Genesis client database to communicate using the Serial Communication Port you have connected the GEN-150 Computer Connection Lead to. Next, check that you have set the communication speed to 9600 bps.

Finally, it is necessary to enter the Serial Number of the Master Unit into the Technician Software.

Communication Settings

To change your communication settings, it is necessary to enter the Equipment Menu, and select the Set System Defaults option.



When selected, the Default Programming dialogue box will be displayed.

Connecting to a Master Unit

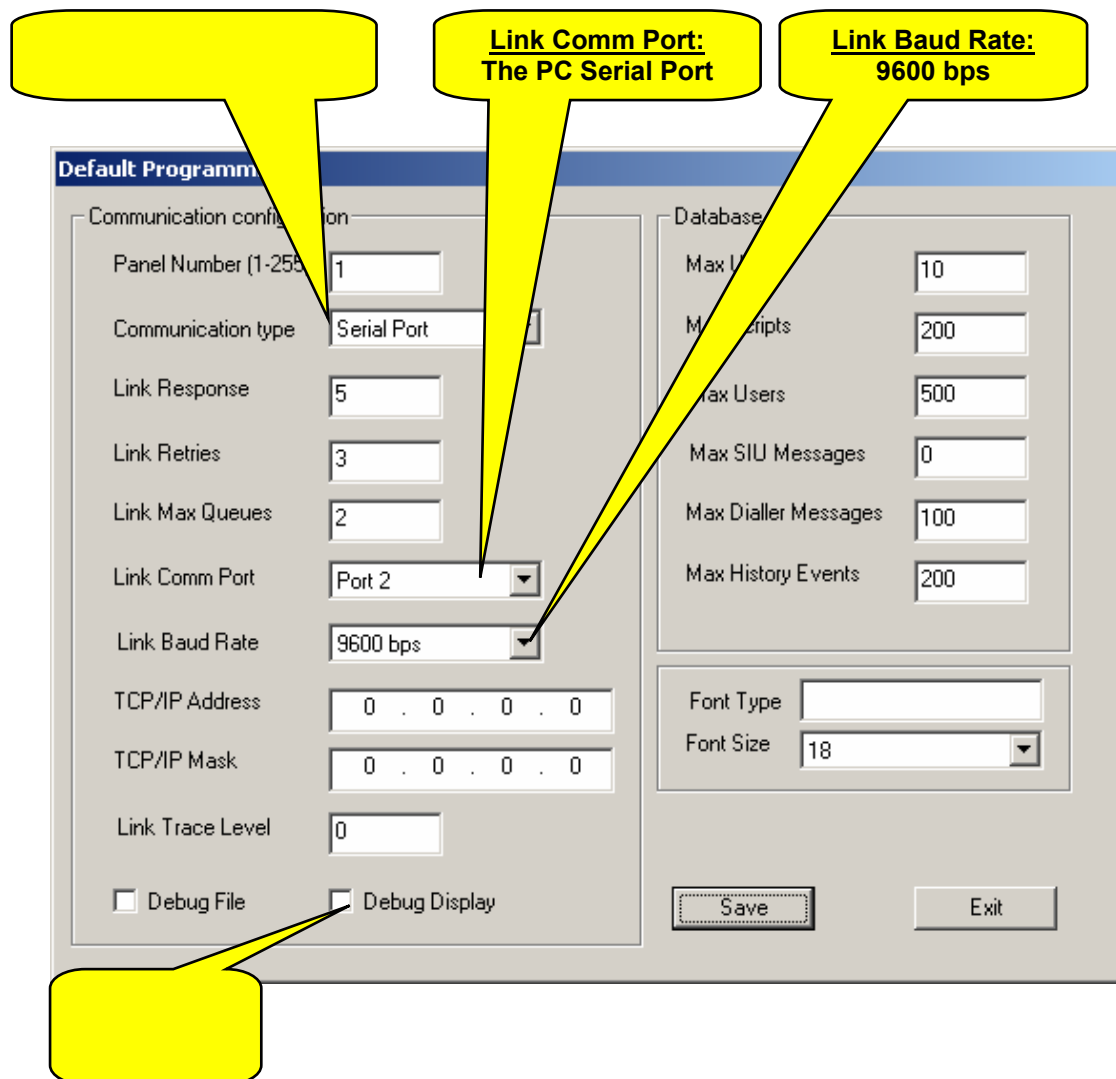
The Default Programming dialogue box is explained fully later in this manual, but of immediate concern are the following settings.

Communication type: This must be set to Serial Port

Link Comm Port: This must be set to the Serial Communication Port on your PC or Laptop – that you have connected the GEN-150 Computer Connection Lead to.

Link Baud Rate: This must be set to 9600 bps

Debug Display: This option is best left ticked when you first connect, it gives good indications as to the state of your connection.



When these settings have been adjusted correctly, it is necessary to select the Save button, followed by the Exit button..

Connecting to a Master Unit

Master Unit Serial Number

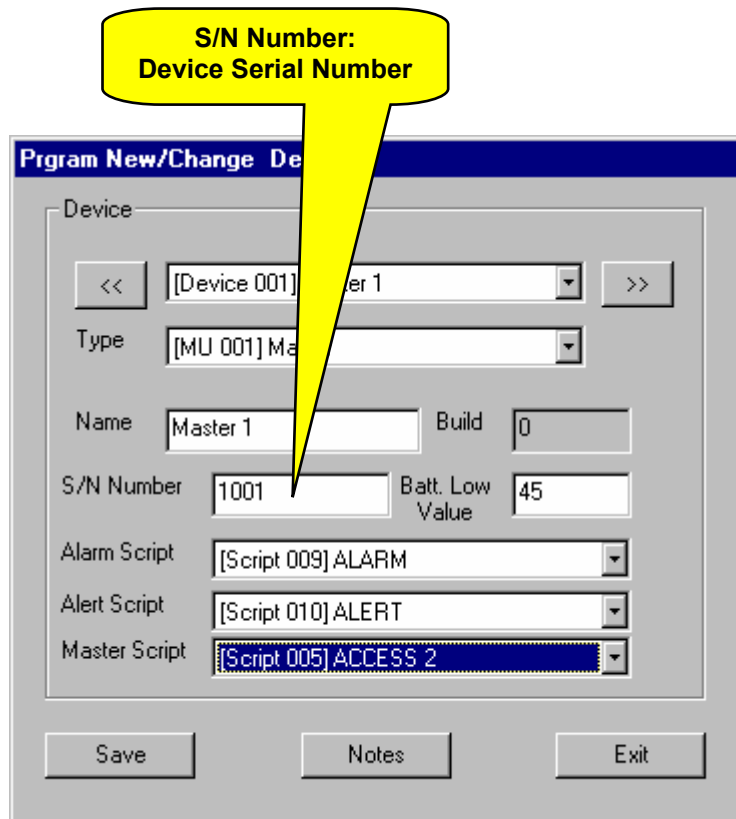
The final setting required is to identify the Master Unit to the Genesis Technician Software. To change the Master Unit serial number in the database, select



[Add New Device](#)

from the left hand side of the Toolbar. This will open the Program/Add New Device dialogue box.

To connect to a Master Unit, all that needs to be altered in this dialogue box is the actual Master Unit serial number.



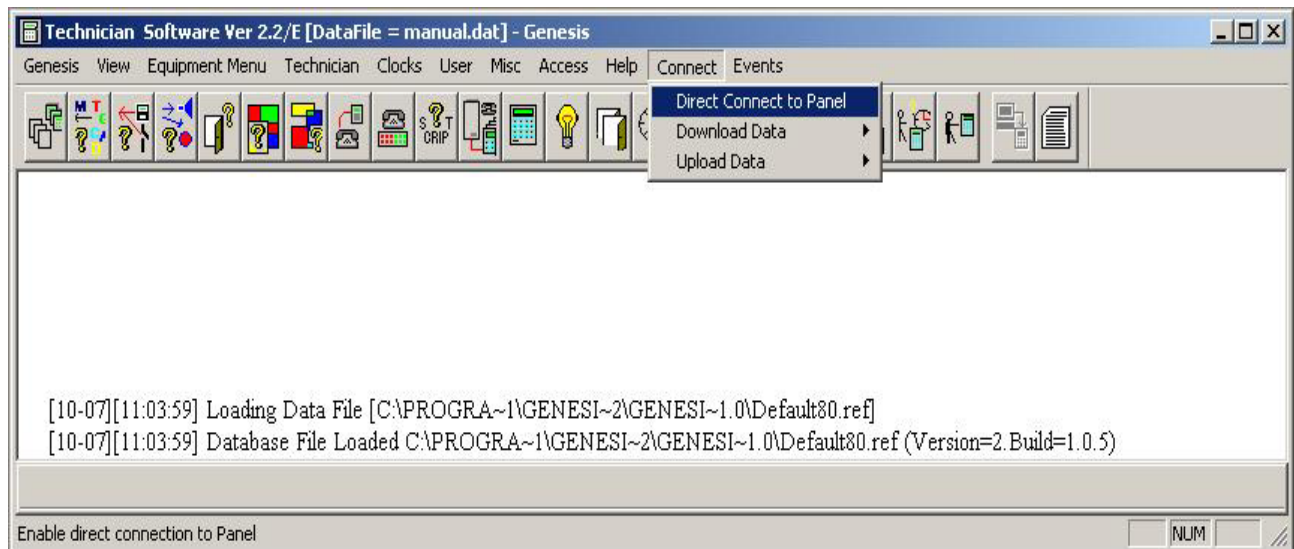
The screenshot shows the 'Program New/Change Device' dialog box. A yellow callout bubble with the text 'S/N Number: Device Serial Number' points to the 'S/N Number' field, which contains the value '1001'. Other fields include 'Device' (set to '[Device 001] Master 1'), 'Type' (set to '[MU 001] Master'), 'Name' (set to 'Master 1'), 'Build' (set to '0'), 'Batt. Low Value' (set to '45'), 'Alarm Script' (set to '[Script 009] ALARM'), 'Alert Script' (set to '[Script 010] ALERT'), and 'Master Script' (set to '[Script 005] ACCESS 2'). At the bottom are buttons for 'Save', 'Notes', and 'Exit'.

Once this has been changed to the serial number of the Master Unit to be connected to, simply select Save and Exit.

Connecting to a Master Unit

Connecting

Once the options mentioned previously have been set, all that needs to be done is select Connect from the Menubar, followed by Direct Connect to Panel.



The Genesis Technician Software should then display the following messages in the Log Display Screen;

```
[10-07][14:10:02] Starting PcLink, Build 8
[10-07][14:10:02] TX:RQ Status Requests, Panel=1
[10-07][14:10:03] 000:Communication to Panel RESTORED
[10-07][14:10:03] RX:Status Panel=1 Map=f0,Users=4,Units=4,Areas=3,Doors=3
```

If Communication to Panel is RESTORED, then the Genesis Technician Software has successfully connected to the Master Unit.

If the following message is displayed;

```
[10-07][14:20:12] Starting PcLink, Build 8
[10-07][14:20:12] TX:RQ Status Requests, Panel=1
[10-07][14:20:36] 000:Communication to Panel FAILED
```

The Genesis Technician Software has FAILED to connect to the Master Unit.

Summary

If the Technician Software fails to connect, please check the following;

- The Master Unit is powered up.
- Port 1 of Master Unit is connected to Serial Communication Port of PC or Laptop
- Check Serial Communication Port on PC or Laptop is operational and has correct address.
- Default Programming – is set for your PC Serial Communication Port, at 9600bps.
- Serial Number for Master Unit has been programmed into Technician Software.
- You do not have a programming jumper on the Master Unit programming header.

Connecting to a Master Unit

Initialising the database

If a Master Unit has not been programmed before, or if the Master Unit has been defaulted, it will be necessary to initialise the database in the Master Unit. When the database is initialised, it will erase any existing programming within the Master Unit.

Initialising the Master Unit database sets the system defaults for the database. Database sizes are explained further in Default Programming.

When your Master Unit has been successfully initialised, the following messages will be displayed in the Log Display Screen.

```
[10-07][16:08:03] Starting PcLink, Build 8
[10-07][16:08:03] TX:RQ Status Requests, Panel=1
[10-07][16:08:03] 000:Communication to Panel RESTORED
[10-07][16:08:03] RX:ACK=10,[10-Database Corrupted,]
[10-07][16:08:14] TX:DbInit Panel=1,Serial=14267,MaxUnits=50,User=1000
[10-07][16:08:14] RX:ACK=0,[0-OK,]
```

This message indicates that:

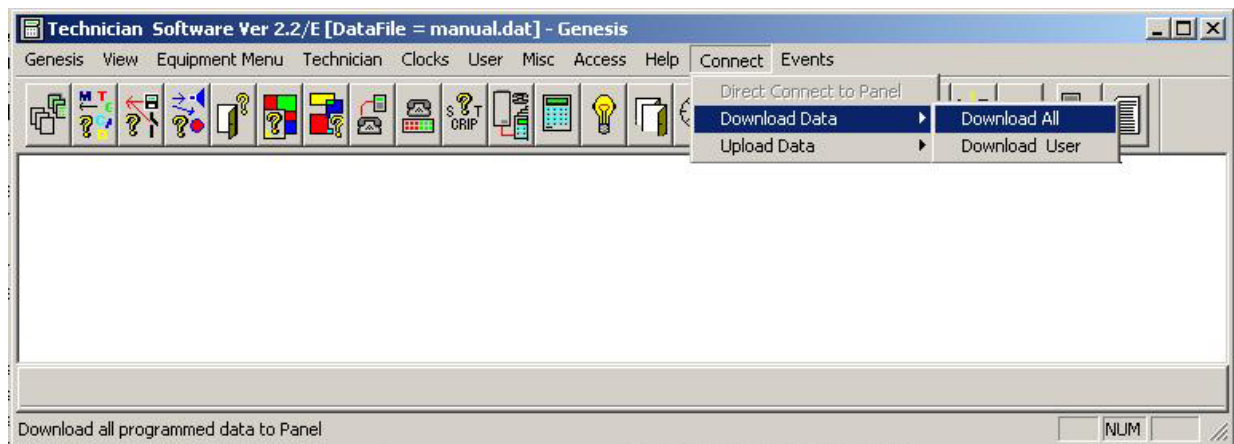
- the Genesis Technician Software has successfully connected to a Master Unit,
- that the Master Unit has a corrupt database, and requires initialising,
- that the Genesis Technician Software has attempted to initialise the database, and
- that the Master Unit has responded that the initialise was successful.

Downloading to the Master Unit

Downloading refers to sending data from the PC or Laptop computer, to the Master Unit. When you download to a Master Unit, you are writing over all of the existing programming, with the data in the Genesis Technician Software.

The Genesis Version 2 allows for two different levels of downloading. You can download all data from the Technician Software to the Master Unit, or you can download limited data relating to user access.

To download to a Master Unit, it is necessary to connect to it. Once you have successfully connected to a panel, select Connect from the Menubar, followed by Download Data, and either Download All or Download User.



Uploading from the Master Unit

Uploading is when you retrieve the programming data stored in the Master Unit, and record it into the Technician Software. When you upload from a Master Unit, you are writing over all of the existing programming in the Technician Software, with the data from the Master Unit.

When uploading from a Genesis Master Unit, it is necessary to upload all data stored in the Master Unit, to ensure that the Technician Software is a true reflection of the programming.

To upload from a Master Unit, it is necessary to connect to it. Once you have successfully connected to a panel, select Connect from the Menubar, followed by Upload Data, and Upload All.

