



Creating Security Solutions.
With Care.

The *GT 600 / 601* Control Panel

Quick Start Instructions

Download the complete *GT 600 / 601 Installation Manual* at
www.riscogroup.co.uk

RISCO Group UK Ltd

Tel: 0161 655 5500 Fax: 0161 655 5501
Int Tel: +44 161 655 5500 Fax: +44 161 655 5501
Internet: www.riscogroup.co.uk
e-mail: sales@riscogroup.co.uk
Technical Support Tel: 0161 655 5600
Technical Support Fax: 0161 655 5610
(Mon - Fri 08:30-1730)



This Quick Start Guide gives brief installation information for the GT 600 / 601 Control Panels. RISCO Group UK Ltd reserve the right to amend the software and features without prior notice.



INVESTOR IN PEOPLE



IMPORTANT!

nput: 600	AC230V +/-10% ~50Hz 125mA Max. 35W Max
nput: 601	AC230V +/-10% ~50Hz 315mA Max. 80W Max
Nominal Temp Range:	0 - 50°C
	GT 601 Metal Versions For Indoor Use Only
	GT 600 Plastic Versions For Indoor Use Only

This equipment is intended only for use as a Security Alarm Control Panel. Adequate ventilation away from heat and humidity must be provided. The unit must be fixed securely to a non-flammable surface using suitable fixings.

All mains wiring must conform to the relevant current IEEE wiring regulations (or appropriate international regulatory standards). See Mains Supply Connection section within this manual for more detailed instructions.

All wiring must be protected from sharp or jagged edges.

All Low voltage (alarm) wiring must be to the appropriate international regulatory standards and comply to good wiring practice and should be routed away from the mains cables. Replacement fuses should be of the same type and rating conforming to IEC 127.

The GT 600 / 601 Control Panels are fitted with resettable fuses. The areas protected are Battery, Aux, Bell, Keypad and Comms. In the event of a fuse tripping or an input/output not working, remove the source of the load and check wiring for shorts. Check any added devices for full functionality before any reconnection.

The maximum current draw from the unit for all output combinations **must not exceed the rated output. Please see note: *Power Supply Rating (Page 5).**

The unit is intended for use with a suitable re-chargeable lead acid battery permanently connected to the appropriate terminals.

All documentation and manuals must be thoroughly read by suitably qualified installation personnel prior to installation.

The unit has no user serviceable parts inside. Internal access should only be by suitably qualified personnel.

GT 601 Metal Versions

The unit must be Earthed. It is the responsibility of the installation engineer to ensure that the earth connection to the unit lid is good on completion of the installation or after service.

GT 600 Plastic Versions

Provision is provided for an earth connection within the mains input connector block, this connection is for protection of the wiring only and is not functional for the unit.

Introduction

The *GT 600 / 601* Control Panels are microprocessor based units that have been designed to be suitable for all types of domestic and commercial installations. All zones are fully programmable by the engineer.

On power up / reset, the Control Panel can be set to the old BS, EN2 (Grade 2) or EN3 (Grade 3) operating standards. Selection for PD6662 2004 /PD6662 2010 standard can also be set at this point. (See page 14 for further details).

Note: Due to changes within the standards, the *GT600* is only BS or EN2 (GRADE 2) compliant.

Upon completion of the installation the engineer may, if required, re-program several factory set options so as to tailor the Control Panel to suit the requirements of the system.

It should be noted that if the engineer code has been locked into the system it may only be changed by using the code again (default to factory settings will have no effect).

We recommend that the Installation manual and the user manual are read and fully understood before any installation of the system is carried out. This Quick Start Guide is intended for use by engineers who have experience in installing GT security equipment. Greater detail is given in the full Installation Manual available from our website.

Planning the Control Panel Location

Consideration in locating the fixing position of the Control Panel should be given to:

Access for the routing of cables for the system from detection devices, sounders (internal and external), remote keypads, mains, etc.

The position of the underside retaining screw.

The fixing of a 3 amp unswitched fused spur.

When fitting the RKP(s) consideration should be given to:
Operation of the keypad.

Readability of the display.

The Panel should be fixed to the wall using appropriate wall plugs and No.8 screws at least 30mm long. Do not tighten the screws at this stage, wait until all your wiring is in place.

Mains Supply Connection

A 230V a.c supply should be taken directly from the consumer unit. In order to comply with the relevant current wiring regulations this should be via a 3 Amp fused spur with disconnection facility.

Gardtec 600 PCB Fitting Instructions

Fitting the 600 PCB (plastic case)

Make sure all mains power is disconnected before fitting the PCB.

After fitting the case to the wall, and feeding the cables through the relevant entries, mount the 600 PCB as shown in the figure 1:-

1. Make sure that the inner retaining clips are in place and the PCB sits squarely on the support pillars. (See figure 1). Make sure the PCB is secure.

Note the orientation of the PCB, the terminal strip is facing the mains transformer.

2. Connect the two orange transformer wires to the two terminals marked A.C. on the PCB. (See figure 1).

3. Connect the two battery wires to the battery terminal on the PCB. Note the polarity. Black -, Red +. (See figure 1).

Fitting the 601 PCB (metal case)

When fitting the 601 PCB to the metal case follow the **B26 Enclosure Assembly Guide** then follow the additional steps outlined below.

1. Leave the tamper spring in place.

2. Connect the **Tamper Cable** to the right angled pin header next to the tamper switch. (**JP2** on the PCB). (See figure1). **Note the orientation, the connector will only fit one way round.**

Fig1. 600 PCB (plastic case).



Output Terminal Descriptions

Speaker Terminals

This pair of terminals provide connection for:-

System Speaker(s)
Optional 16/32 Ohm Panel Speaker

A speaker is supplied in each keypad. If any additional speakers are fitted they should present a minimum impedance of 16 Ohm.

PGM 1, 2 & 3 Terminals

The PGM1 & 2 terminals are an open collector output held at 12V through an integral 1k resistor. Max current sink into PGM 1 & 2 terminals is 50mA. The terminals are programmable for various uses if required.

Note: PGM3 terminal is the strobe- terminal and is only available as a programmable option if the Strobe terminal is not used for the External Sounder e.g. when NovActive sounders are used.

*Power Supply Rating

Gardtec 601 metal version maximum output current - 2A

Gardtec 600 plastic version maximum output current - 1A

It should be noted that the 600 plastic control panel has 1Amp available for the full system. However, for the purpose of compliance to EN and PD6662 standard, the capacities of the power supply have to be specified differently. For a Grade 2 system you have 72 hours to charge the battery. With the 600 plastic control panel, 90mA is available for battery charging. This defines a theoretical maximum standby battery capacity of 8.0Ah and a maximum of 666mA available for system power. If a smaller capacity battery is used then the rating has to be reduced accordingly. For example: If a 7Ah battery is used it will recharge in 72 Hrs and will theoretically provide 910mA (1000-90mA) for the system. However, the supply rating for that system under PD6662 is still 7.0Ah/12hrs = 583mA. Sounders, detectors and other auxiliary items should be included when calculating current drawn by the system. Any damage caused through overloading the control panel supply will not be covered by the warranty. We recommend that additional power supplies are used to supply detectors on long cable runs.

AUX 12V Terminals

This pair of terminals supply the + and - supply for the detectors.

Strobe Terminals

This pair of terminals are the output for the Strobe. The negative terminal is switched during an alarm period.

Bell Terminals

This pair of terminals are the output for the Bell or external sounder. The negative terminal is switched during an alarm period.

Keypads

The + and - terminals supply power to the keypads.

4 Wire Remote Keypads

Up to seven remote keypads may be fitted to the *GT 600 / 601* control panels.

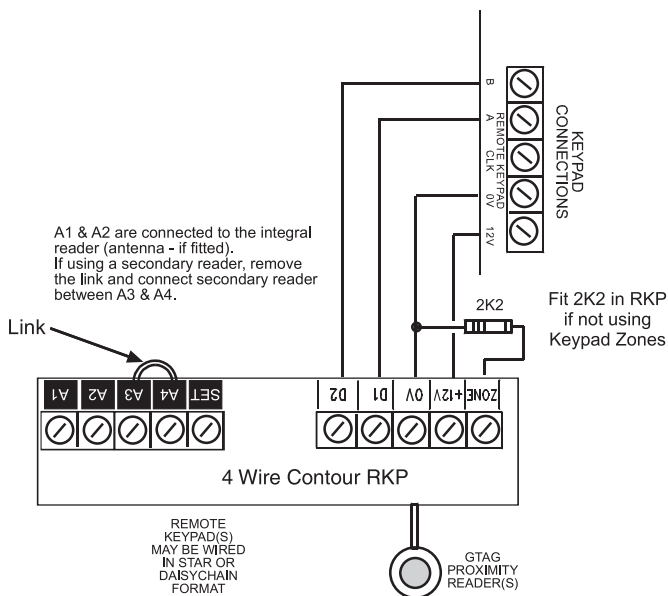
A four core connection will be required between the control panel and remote keypad(s), keypads may be in a 'daisy chain' or 'star' format.

For installing the keypad please refer to the instructions supplied with the 4 wire keypad.

6 Wire Keypads

6 Wire Keypads can be used with the *GT 600 / 601* Control Panel. Please refer to the installation instructions supplied with the 6 wire keypads. Please note that only one type of keypad can be used. 4 wire and 6 wire keypads cannot be mixed.

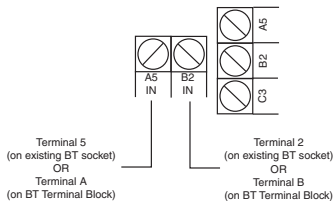
Fig2. RKP Connections



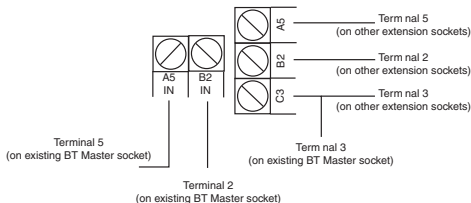
Digi Modem - The *GT 600 / 601* control panels feature an onboard Digi modem. The Digi provides all the features of an eight channel communicator whilst the Modem provides facilities for Gardtec Remote Upload/Download software package.

Vo-Comm - (If fitted) Is a method of transmitting signals to a standard land-line or mobile telephone, giving information regarding the status of your security system. If **On** is selected, the Vo-Comm menu will now appear in the USER mode. Please refer to *GT 600 / 601* User Guide for further programming information.

Fig3. Telephone Connections

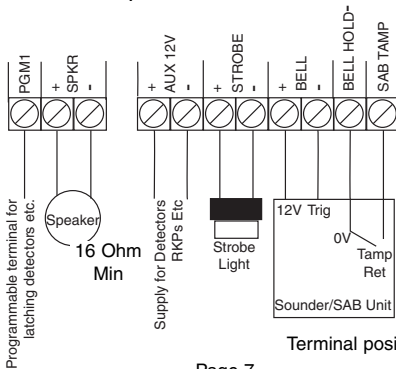


Standard Telephone Connection



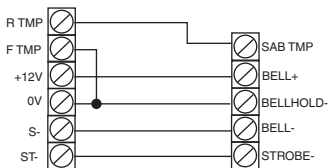
Serial Telephone Connection (depending on model)

Fig4. Control Panel Output Connections



Terminal positions may differ.

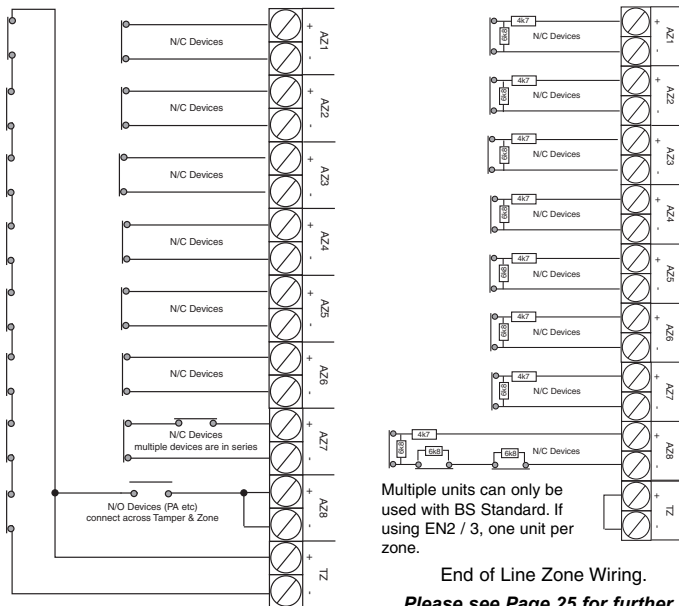
Fig5. Typical Novagard 2G/4G Connections



Novagard 2G/4G
(Strobe terminals omitted)

GT 600 / 601 Control Panel

Fig6. Control Panel Input (Zone) Connections



Standard (2 Wire) Zone Wiring

Multiple units can only be used with BS Standard. If using EN2 / 3, one unit per zone.

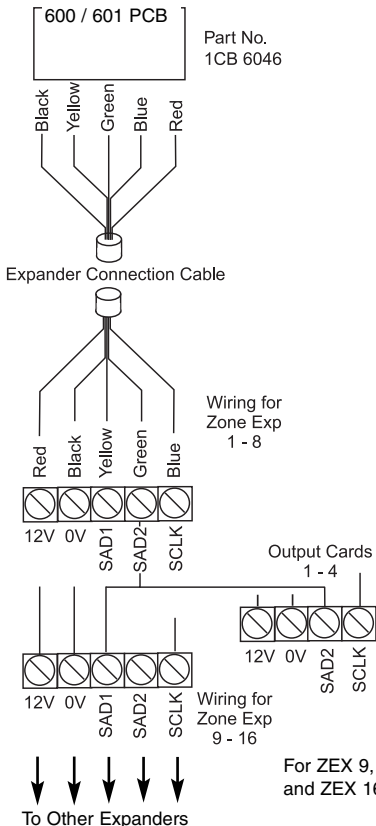
End of Line Zone Wiring.

Please see Page 25 for further wiring modes where Anti-Mask detectors are used.

Zone/Output/ID Expander Card Connections

Upto 4 zone expander cards (or 1 ID Expander card) can be fitted to the 600. Up to 16 zone expander cards (or 2 ID Expander card) can be fitted to the 601. These are all fitted to a common expander bus via a serial connection lead (part No. 1CB 6046). This lead is fitted to the plug on the front of the control panel PCB and the cards wired as shown below. Refer to page 11 for ID compatibility and output cards.

Fig7. Expander Card Connections



Notes:

Remove power from panel before connecting Expander Cards.

Zone Expansion Types (ZEX or ID) are programmed via option 72

Zone Expander Cards are programmed via options 75 & 76.

Ensure ident jumper on Zone Expander is in position 1 to 4 as required.

Zones numbers on Expander No.1 start at 21(e.g AZ1 on expander 1 = zone 21).

Zones numbers on Expander No.2 start at 31(e.g AZ1 on expander 2 = zone 31).

Zones numbers on Expander No.3 start at 41(e.g AZ1 on expander 3 = zone 41).

Zones numbers on Expander No.4 start at 51(e.g AZ1 on expander 4 = zone 51).

If ID zones are used the first zone on the ID card is Zone 21

For Output Expanders ensure ident jumper is in required position (1 - 4).

Output Expanders are programmed via option 83 and may be programmed only via a LCD RKP.

For ZEX 9, jumper should be on **Address 1** and ZEX 16, jumper should be on **Address 8**

Zone Expander (ZEX) Wiring Modes

Three wiring modes may be programmed for each ZEX these are.

4 Wire	Gives 4 zones AZE 1 - AZE 4 and four tampers TZE 1 - TZE 4
2 Wire	Gives 8 zones AZE1 - AZE 4 then TZE 1 - TZE 4
End Of Line	Gives 8 End Of Line zones AZE 1 - AZE 4 then TZE 1 - TZE 4

All AZE zones are positive loops and all TZE zones are negative loops. when using 2 wire mode please reserve one positive and one negative zone for your tampers. Tampers should be opposite polarity to the zone being protected.

Before powering up place jumper ZEX on position 1 to 4 (5 - 16, 601).

For the purpose of allocating expander zones the control panel should be viewed as unit number 1 and the first expander card as unit number 2 all zones on expander number 1 therefore start with 2 (e.g 21, 22, 23 . . .) and all zones on the second expander that is unit number 3 start with 3 (e.g 31, 32, 33 . . .)

Fig8. Zone Allocation on Zone Expander Cards (ZEX)

Expander Card Number 1

	4 Wire Mode	2 Wire Mode	2 Wire EOL Mode
AZE1	Zone 21	Zone 21	Zone 21
AZE2	Zone 22	Zone 22	Zone 22
AZE3	Zone 23	Zone 23	Zone 23
AZE4	Zone 24	Zone 24	Zone 24
TZE1	Tamper Zone 21	Zone 25	Zone 25
TZE2	Tamper Zone 22	Zone 26	Zone 26
TZE3	Tamper Zone 23	Zone 27	Zone 27
TZE4	Tamper Zone 24	Zone 28	Zone 28

Note: all AZE zones are +ve and all TZE zones are -ve.

Expander Card Number 2

	4 Wire Mode	2 Wire Mode	2 Wire EOL Mode
AZE1	Zone 31	Zone 31	Zone 31
AZE2	Zone 32	Zone 32	Zone 32
AZE3	Zone 33	Zone 33	Zone 33
AZE4	Zone 34	Zone 34	Zone 34
TZE1	Tamper Zone 31	Zone 35	Zone 35
TZE2	Tamper Zone 32	Zone 36	Zone 36
TZE3	Tamper Zone 33	Zone 37	Zone 37
TZE4	Tamper Zone 34	Zone 38	Zone 38

Note: all AZE zones are +ve and all TZE zones are -ve.

From Control Panel to Zone Expander Card 100m maximum

From Zone Expander Card to last Device 100m maximum

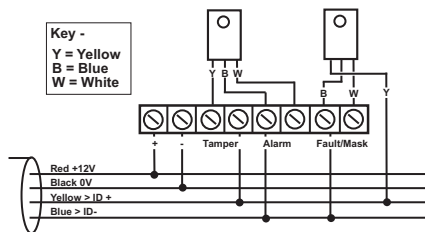
On long wiring runs do not draw power for detectors from the Zone Expander Card, use a separate Power Supply for the detectors.

ID Expander Detector Wiring

One ID Expander Card may be fitted to the *GT 600* control panel giving 8 panel zones plus up to 30 ID zones using industry standard ID Biscuits or ID Detectors. ID zones numbers are 21 through to 50. Two ID Expander Cards may be fitted to the *GT 601* Control Panel. The 2nd ID card will be zones 51 - 80.

Typical wiring for ID Biscuits is shown below.

Fig9. ID Biscuit Wiring Diagram



Note: For ID pairing, biscuit numbers MUST be in sequence...
Example: PIR1 = Biscuits 1 & 2,
PIR2 = Biscuits 3 & 4 etc...

Fig10. Detector Using Wired Biscuit

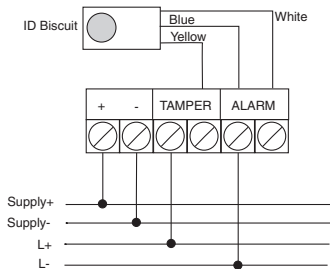
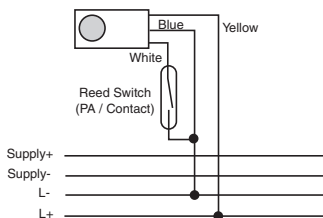


Fig11. PA Using Wired Biscuit



Up to four Output Cards may be fitted, each Output Card has four change over relays.

The recommended maximum distances for ID wiring is as follows:-

From Control Panel to ID Expander Card 100m maximum.

From ID Expander Card to last ID Device 100m maximum.

On long wiring runs do not draw power for detectors from the ID Expander Card, use a separate Power Supply for the detectors.

GT 600 / 601 Connection Details

If powering up the Control Panel with battery only, connect battery and short out **JP1** for approx. 5 seconds. Key pad and Control Panel will then become active.

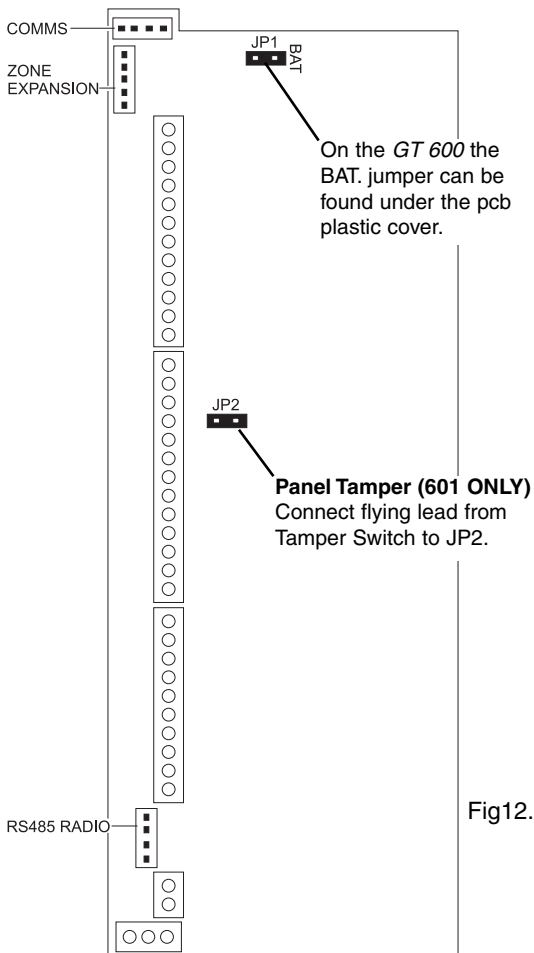


Fig12.

Initial Power Up

When the Control Panel is powered up it will be either set or unset dependent on the state of the Control Panel when it was powered down. The factory default state will be unset.

Reset to Default Modes

Note: It is ESSENTIAL that a 4 6 Yes No reset is done to all new systems before commencement of programming.

The Control Panel is now back to factory defaults.

If you intend to program the control panel via Gardtec Remote you should default the panel using 5 5 YES NO This will default the control panel and set-up all the remote comms options.

Two other reset modes are also available:

3 7 YES NO defaults the system and codes but leaves user names and zone descriptors intact.

1 9 YES NO defaults the Master User to 5678 and Engineer to 1234

Note: If the engineer code has been 'Locked' into the system resetting to default modes will have no effect on the engineer code. The only way to release this state is to return the PCB to the factory (please note this is a chargeable service)

System Programming

The system may be programmed by the engineer by use of the engineer code (1234 factory default). Other Engineer/User functions are also available to the engineer, these are as follows.

Set	Unset	Remove
Test	Log	Chime

Note: Details of the above functions are given in the User Manual.

Program Engineer Code

Programming of the Engineer Code is only possible via the Engineer Code (e.g 1234). See Engineer Programming.

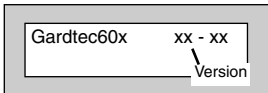
Engineer Programming Mode

Engineer Programming

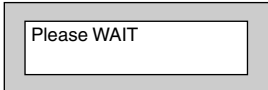
Although LED keypads may be used, **ONLY** the **LCD** keypads can be used to programme the **GT 600 / 601** Control Panels.

To enter the engineer programming mode follow the steps outlined below:-

1. Remove all power from the system for at least 10 seconds.
2. Apply mains power to the control panel. The display will show, for example:-
3. Whilst this display is showing (the first five seconds) press for the reset required. **(E.g 4 6 Yes No)**.

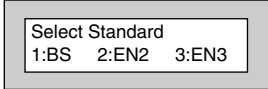


The display will then show:-
This may show for several minutes.



The display will then show:-
The display may differ from the sample shown.

Note: Due to changes within the standards, the **GT600** is only **BS** or **EN2** (**GRADE 2**) compliant.



Selecting 1:BS - Panel may be programmed to comply with the old BS4737 Standards. DD243 requirements will still apply.

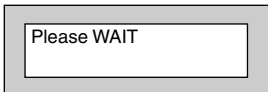
Selecting 2:EN2 - Panel may be programmed to comply with EN50131-1 for Grade 2 Systems. DD243 requirements will still apply.

Selecting 3:EN3 - Panel may be programmed to comply with EN50131-1 for Grade 3 Systems. DD243 requirements will still apply.

4. Select **2:EN2**.

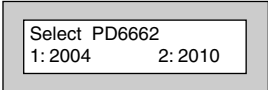
Note: This document assumes that **2:EN2** has been selected. For differences between **EN2** and **EN3** please refer to the **GT600 / 601 Engineer's Reference Guide**. The manual is available from the web site.

The display will show:-
This may show for several minutes.



Note: For **EN3** installations, User Codes and Engineer Codes **MUST** be six digits in length.

The display will then show:-
From Control Panel Version 2 ONLY.



Select PD6662
1: 2004 2: 2010

5. Select either **1** or **2** depending on which standard you require.

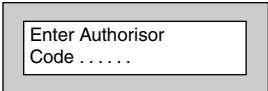
The display will show:-
This may show for several minutes.



Please WAIT

The display will then show:-

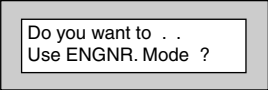
6. Enter Engineer code.
(1234 default).



Enter Authorisor
Code

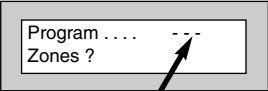
7. Enter the Authorisor code. The Authorisor code is
the Master User, **(default 5678).**

The display will show:-



Do you want to . .
Use ENGNR. Mode ?

8. Press Yes. The display will show:-



Program _ _ _ _
Zones ?

A Header is indicated by three
underscores on the display.

From this point the panel is Engineer Mode and all Tampers will be disabled.

Note: At any point when three underscores are shown on the display you are viewing a Header. You may move to the next Header by Pressing the NO Key or access the functions under the Header by Pressing the YES Key.

You are able to jump to various common options when programming by entering the relevant menu numbers. With a Header showing, key in the appropriate menu number, then press Yes.

Note: Throughout the programming routine you may use the 0 (zero) Key to escape back one level. This does not apply when a numeric entry is expected, in this case complete the input before using the 0 Key to escape.

Factory Default Codes:

Engineer	BS / EN2 - 1234 EN3 - 001234
User 1 (Master)	BS/EN2 - 5678 EN3 - 005678 Users 2 - 31 (32 - 99, 601 only) Unprogrammed.

Available Headers & Options

Below is shown the Headers (menu numbers, see page 19) that are available and the options that appear under each Header.

Program Zones...

- Zone Types
- Zone Descriptors
- Zone Wiring
- Zone Attributes
(Test/Part/Chime/Cleaner/Walk)
- Zone Double Knock, Arm, Log
- Zone E/E Mode
- Zone Event Tags

Program Setting Modes...

- Setting for Full Set
- Setting for Part 1 Set
- Setting for Part 2 Set
- Setting for Part 3 Set
- Setting Delay
- Setting Sounders
- Setting Confirmation
- Setting for Auto-Part Set

Program Entry Times...

- Entry Time 1
- Entry Time 2

Program Bells & Sounders...

- Bell Type
- Bell Delay Number of Arms
- Bell & Sounder Ring
- Bell Tamper Mode
- Bell in Part Set

Program Keypad...

- Keypad Alert 1 Keys
- Keypad Alert 2 Keys
- Keypad Alert 3 Keys
- Keypad Number of Keypads
- Keypad Backlight Mode
- Ace/Prox
- Keypad Areas

Program Digicom...

- Digicom Type or Test
- Vo-Comm
- Digicom Delay / Part
- Digicom Channels
- Digicom Functions**
 - Digicom View Modem Log
 - Modem Functions
 - Comms Functions
 - Comms Off
 - Site ID
 - Tel No. 1
 - Tell No. 2
 - Line Monitor
 - Line Security
 - Restore Reports
 - Open / Close Channels
 - Advanced Functions

Modem Functions

- Modem Mode
- Double Ring
- Keypad Lock / In-Use Text
- Site ID Code
- Password
- Tel No. 1
- Tel No. 2
- Modem Access
- Send Keys / Status

Program Linefault Modes...

- Linefault Sounders
- Linefault In Exit Mode
- Linefault Log Mode
- Line Fault Detect Time

Program Panic / Duress...

- PA Bells Only
- Testable / Non-Testable
- Duress Off *(To conform with EN Standards, Duress is defaulted to Off and cannot be changed).*

Program PGM 2 / 3 / Timers...

PGM2/3 Operating Mode
Timer 1
Timer 2
Timer 3

Program Reset / Mains...

Mains Fail Delay
Alarm 1 Reset
Alarm 2 Reset
Alarm 3 Reset
Tamper Reset
Alarm Restore
Abort Time

Program Sounder Levels...

Chime Level
Entry / Exit Level
Key Beep Level

Program PGM 1 / XP / Custom...

PGM 1 Mode
Expander 1 Output 1 Mode
Expander 1 Output 2 Mode
Expander 1 Output 3 Mode
Expander 1 Output 4 Mode
Expander 2 Output 1 Mode
Expander 2 Output 2 Mode
Expander 2 Output 3 Mode
Expander 2 Output 4 Mode
Expander 3 Output 1 Mode
Expander 3 Output 2 Mode
Expander 3 Output 3 Mode
Expander 3 Output 4 Mode
Expander 4 Output 1 Mode
Expander 4 Output 2 Mode
Expander 4 Output 3 Mode
Expander 4 Output 4 Mode
Custom Outputs 1 - 8

Program Engineer Code...

Code
Lock / Unlock

Program Service...

Service Timer
Service Telephone Number
Lock-Out On / Off
Engineer Mode Constant / Timed

Program Custom Screens...

LCD Status
LED Status
Custom Display On / Off
Program Custom Text

Program Diagnostics / Log...

List Event Log
Change / List Diagnostics

Program Alarm Confirm...

Confirm Window Time
Confirm On Entry
Confirm Sounder Mode
Confirm Reset Mode
Confirm Secondary Time
Confirm ET Mode
Confirm Bell Mode
Confirm Strobe Mode
Confirm Start Delay
Confirm ACE Battery Monitor
Confirm Comms Restore
Confirm Keypad Opening

**Although LED keypads may be used
ONLY the LCD keypads can be used
to programme the *GT 600 / 601*
Control Panel.**

Common Options With Menu Numbers

You are able to jump to various common options when programming by entering the relevant menu numbers. With a Header showing, key in the appropriate menu number, then press Yes.

For a full list of Common Options please refer to the *GT 600 / 601 Engineer's Reference Guide* which is available on the web site.

Menu	Item
12	Full Set Setting Time / Setting Mode
22	No. of Keypads / Multi On Off / K/Switch
28	Entry Time 1
34	Digicom Type
38	Engineer Code
46	Main Fail Delay
47	Tamper Reset Mode
50	Zone Response
52	Zone (Attributes)
155	Confirm Time Window (DD243 Section)
139	PSU Test Time

Note: If any Zones (panel or expander zones) are not used the terminals for that Zone should be left open (no link) and the Zone should be programmed as Off

Zone Defaults

Zone types by default are

Zone 1	=	Entry / Exit	Area 1	Non-Removable
Zone 2	=	Access	Area 1	Non-Removable
Zone 3	=	12Hr	Area 1	Non-Removable
Zone 4	=	12Hr	Area 1	Non-Removable
Zone 5	=	12Hr	Area 1	Non-Removable
Zone 6	=	12Hr	Area 1	Non-Removable
Zone 7	=	12Hr	Area 1	Non-Removable
Zone 8	=	12Hr	Area 1	Non-Removable

All Expander Zones = 12Hr Area 1 Non-Removable

Zones on Expander 1 start at 21 through to 28

Zones on Expander 2 start at 31 through to 38

Zones on Expander 3 start at 41 through to 48

Zones on Expander 4 start at 51 through to 58

Note: Zones 25-28, 35-38, 45-48 & 55-58 will only be available if 2 wire or 2 wire EOL wiring mode has been programmed for that expander card.

Programming Alarm Confirm

The first option will be:

Confirm Time Window (default = 60)

This time window may be programmed between 1 and 120 minutes. To comply the required time should be between 30 and 60 minutes.

Confirm on Entry (default = On)

This option may be programmed to On or Off. If Confirm on Entry = Off then confirmed alarms to central station are disabled if the entry timer is started. If ACE / G-Tag is used then it is permissible to set this option to On.

Sounder Mode (default = Unconfirmed)

This option controls the system speakers fitted, options are confirmed or un-confirmed.

If Sounder Trigger = Confirmed then internal sounder will only trigger with a confirmed alarm.

If Sounder Trigger = Unconfirmed then internal sounders will trigger with un-confirmed alarms.

This feature is not mandatory for DD243

Reset Mode (default = Any)

Choose from Any or Normal.

If Unconfirm = Any then any code can be used to reset an un-confirmed alarm.

If Unconfirm = Normal then the programmed reset mode for alarm will still be required i.e. if alarm reset has been programmed as engineer and Unconfirm reset is Normal then an engineer reset will be required for Un-confirmed alarms.

Keypad Opening (default = Always On)

This option controls the keypad option during Entry/Alarm and effectively controls if the keypad will lock-out during entry or in an alarm condition. The option is used for DD243 : 2002 systems using G-Tag and the keypads need to lock-out in certain circumstances. Settings available are

Always On Keypads will always be accessible

Off in Entry Keypads will be locked-out during Entry period

Off in Ent/Alm Keypads will be locked-out during Entry period or during alarm

Default = Always On

Confirm Secondary Time Window (default = 60 minutes)

This time window may be programmed between 1 and 120 minutes we would suggest a time between 30 and 60 minutes but should typically be the same time as the confirm time window. This option affects zones that have been allocated as secondary zones only. For functionality please refer to Secondary Zones Below.

ET (Exit Terminator) Mode (default = Set)

If ET Mode = Set then the exit terminator zone will terminate the exit procedure.

If ET Mode = Door Lock and the ET zone (door lock) is operated on entry then all confirmed alarms will be disabled.

Bell Mode (default = Unconfirmed)

This option controls the bells fitted to the system, options are confirmed or unconfirmed.

If Bell Trigger = Confirmed then Bell will only trigger with a confirmed alarm.

If Bell Trigger = Unconfirmed then Bell will trigger with un-confirmed alarms.

This feature is not mandatory for DD243

Strobe Mode (default = Unconfirmed)

This option controls the Strobe(s) fitted to the system, options are confirmed or unconfirmed.

If Strobe Trigger = Confirmed then Strobe will only trigger with a confirmed alarm.

If Strobe Trigger = Unconfirmed then Strobe will trigger with un-confirmed alarms.

This gives the ability to show to the keyholder from outside the premises that a previously unconfirmed alarm has is now confirmed.

This feature is not mandatory for DD243

Confirmed Start Delay (default = 000m)

May be programmed between 0 & 120 minutes (default 0).

If programmed to anything other than 0 the panel cannot send confirmed signals until the time programmed has expired. This time starts when the system has set and will prevent confirmed alarms being generated in situations when a person has been accidentally locked in the building.

This feature is not mandatory for DD243

Ace Low Battery (default = On)

Options are On or Off. This option allows for the use of new control panel boards with V5.1 or later software to be used with earlier keypads. If older non DD243 compliant type keypads are used this option should be programmed to Off. It is a requirement of DD243 2002 that when using ACE Low Battery is reported to the end user if the system is set using ACE.

See A.1 DD243 2002 Portable ACE used for setting and unsetting.

Secondary Zones

The Program Part / Test /Chime option has now been renamed to Program Zone Attributes. Within this section you are able to allocate zones as Secondary Zones.

Secondary type zones would be used for detectors that may be deemed as having an over sensitive nature, this will stop unwanted user call-outs. Zones that are entered as Secondary will follow the chain of events below.

During a set period triggering a Secondary Zone will start the Secondary Time Window. This will be logged but no further action is taken. If the second zone to alarm during the same set period is also a Secondary Zone then it will be logged and the Secondary Time Window will be restarted.

If the time set within the Secondary Time Window is still running and a zone that is not allocated as a Secondary Zone is triggered the event will be logged an Alarm A (unconfirmed) and Alarm B (confirmed) will be transmitted. This feature is not mandatory for DD243

Perimeter Zones

Within the Program Zone Attribute section you are able to allocate zones as Perimeter. Zones that are entered as Perimeter will follow the chain of events below.

When activated an unconfirmed alarm will be transmitted to the central station. An output or digi channel may be programmed as perimeter (or if using Point ID a new signal type of perimeter will be sent). This will allow central station to inform the keyholder that an unconfirmed alarm has been received and is a perimeter type device i.e window backdoor etc. etc. This feature is not mandatory for DD243.

Sounder / Bell Considerations

Please note careful consideration should be given when programming Confirm Sounder and Confirm Bell Modes. If both are programmed for confirmed and any of the above scenarios occur no local sounders will activate.

Other DD243 2002 Notes to Consider

When a system auto re-arms with a zone in fault condition The GT control panel will omit the zone concerned. A signal should be sent to the central station indicating that a detector(s) has (have) been isolated. To achieve this a Digi channel should be programmed as zone exclude, this automatically sends the required signal as the detector is omitted.

See A.3.1 DD243 2002 IAS Incorporating Sequential Conformation Technology Only

Output Option (Status)

This option has three operating modes and is intended to provide a visual indication of the system status.

System Set	Output On for 10 seconds
System Unset	Output On for 1s Output Off for 1s for a 10 second period
Confirmed Alarm	Output On for 3 seconds Output Off for 1s until system reset.

It is envisaged that this status output would be fitted to an indicator (i.e. LED) that can be seen from outside the premises.

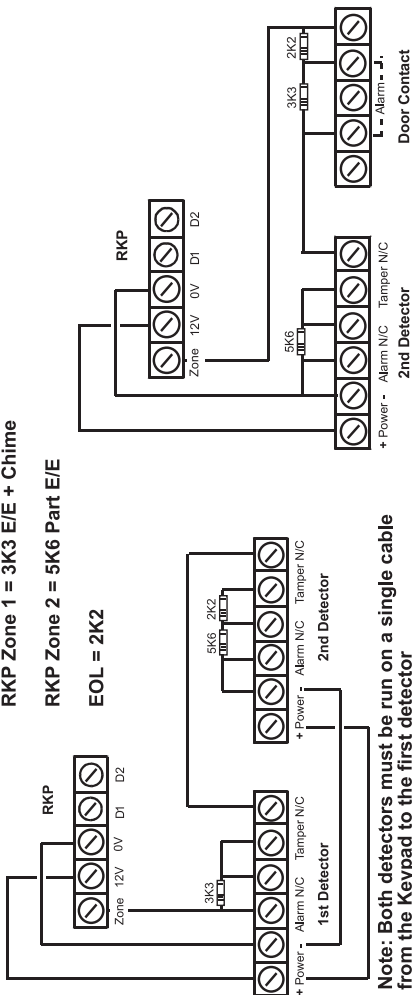
Keypad Zone Wiring Details

Note: Keypad zones are preset and cannot be changed.

RKP Zone 1 = 3K3 E/E + Chime

RKP Zone 2 = 5K6 Part E/E

EOL = 2K2



Note: Both detectors must be run on a single cable from the Keypad to the first detector then the second. The 2K2 resistor must be in the last/final detector.

Fig13.

RESISTOR COLOUR CODES

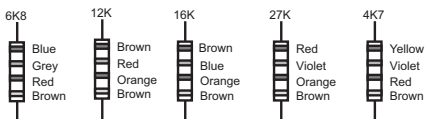


Fig14.

Radio Expander Wiring & Switch Settings

Connect cable between **Con 4** on the 600 / 601 PCB and the Radio Receiver.

Each receiver has two banks of switches marked as Key ID and Zone ID.

For **Receiver 1**, all the switches must be in the **OFF** position.

For **Receiver 2**, switch 1 on the **Key ID** and the **Zone ID** banks must be in the **ON** position.

Note: Move switches before applying power to the Receiver.

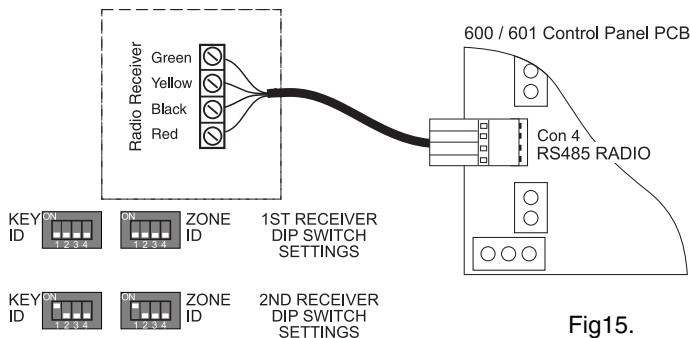
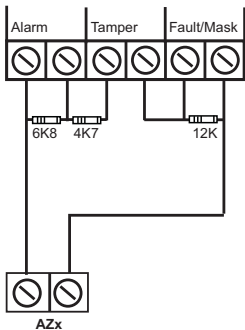


Fig15.

Typical Wiring Modes

Where Anti-Mask detectors are used, one of the below wiring modes may be utilised.

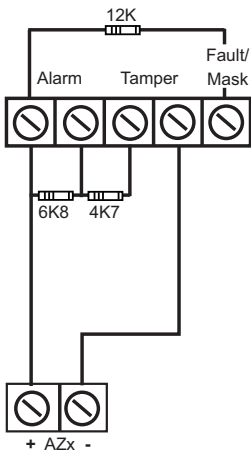


ELF1 wiring is used for detectors that have a relay output (a pair of terminals) for Fault or Mask.

The installer should check what output type the detectors are, noting that all detectors should be of the same type with regards to the Fault / Mask output.

Fig16.

Typical ELF1 (End of Line Format 1) Wiring.



ELF2 wiring is used for detectors that have a transistor output (a single terminal) for Fault or Mask.

Note: For ELF2 wiring format the 12K resistor must be linked to the positive side of the zone terminals.

Fig17.

Typical ELF2 (End of Line Format 2) Wiring.

Notes:

Notes: