

## Galaxy Dimension Quick-start Guide

**NOTE:** It is strongly recommended that any personnel installing a Galaxy Dimension panel undertake appropriate training. This training is supplied free of charge and can be arranged by contacting Honeywell Security.

A full technical installation manual will be given to each installer at the training session. Additional manuals can be purchased from your distributor.

Additionally, the installation manual is available from the Honeywell Security website:  
www.honeywell.com/security

### Variants

The Galaxy Dimension is available in 4 variants: GD-48; GD-96; GD-264; GD-520. The differences between each variant are shown in the following table.

Variant	On-board PSTN Dialler	RS485 Buses	Zones Min/Max	STD users*
GD-48	YES	1	16/48	94
GD-96	YES	2	16/96	242
GD-264	YES	2	16/264	987
GD-520	YES	4	16/520	987

\*Excluding Manager, Authorisation, Engineer and ATM codes.

**NOTE:** The E485-2 Expansion module gives 2 extra Bus lines (lines 3 and 4). The addition of the E485-2 to a GD-264 system turns it into a GD-520 system.

### Setup

In order to get the system up and running, mount the panel and connect and address all peripherals as described below, **before** finally powering the system.

### Peripheral Wiring

The following peripherals can be connected to the panel:

**All bus lines:** Mk7 LCD Keypad/Keyprox; TouchCenter; MAX<sup>3</sup>; DCM; RIO; PSU.

**Bus line 1 only:** Telecom; RS232; ISDN; Ethernet; Audio Interface

**NOTE:** The system must be wired in a daisy-chain configuration. Spur and star configurations must not be used. The recommended cable used to connect the RS485 (AB) line is twisted pair screened cable (Belden 8723 equivalent).

Panel	Keypad/Keyprox	Touch Center	RIO & DCM	PSU	Audio Interface
+12V	+	+	+	X*	+12V
GND	-	-	-	0V	GND
A	A	G	A	A	A
B	B	Y	B	B	B

\*Do not connect +12V terminals between panels and remote power supplies

Panel	Telecom	RS232	ISDN	Ethernet
+12V	+12V	+12V	12V	+
GND	-	-	GND	-
A	A	A	A	A
B	B	B	B	B

### RS485 Peripheral Wiring

### Peripheral Addressing

The address on most peripherals is set by either jumpers or a rotary switch. These must be set **before** the system is powered up. See the instructions with the peripheral for details. The following table identifies the available peripheral addresses:

Peripheral	Line	VALID ADDRESSES			
		GD-48	GD-96	GD-264	GD-520
Mk7 Keypad	1	0-2,B-F	0-2,B-F	0-2,B-F	0-2,B-F
	2	-	0-2,B-F	0-6,F	0-6,F
	3-4	-	-	-	0-6,F
MK7 Keyprox	1	0-2	0-2	0-2	0-2
	2	-	0-3	0-3	0-6
	3-4	-	-	-	0-6
TouchCenter	1	0-2	0-2	0-2	0-2
	2	-	0-3	0-3	0-6
	3-4	-	-	-	0-6
RIO/PSU	1	2-5	2-5	2-9, A-F	2-9 & A-F
	2	-	0-5	0-9, A-F	0-9 & A-F
	3-4	-	-	-	0-9 & A-F
MAX/DCM Reader	1	0-3	0-3	0-3	0-7
	2	-	0-3	0-3	0-7
	3-4	-	-	-	0-7
Telecom	1	(E)	(E)	(E)	(E)
RS232	1	(D)	(D)	(D)	(D)
ISDN	1	(C)	(C)	(C)	(C)
Ethernet	1	(B)	(B)	(B)	(B)

### Peripheral Addresses

**NOTES:**

1. A single TouchCenter can be fitted to each bus line.
2. If RIO 2 on-board is set to line 0 (dip sw 8) then the first external RIO can use address 1 to give an extra 8 zones where needed.

### Mains Supply Wiring

This product is not suitable for installation, maintenance or connection by the user. A competent, qualified engineer, with for example NSI approval, must carry out installation and maintenance.

**Warning:** A means of isolation from the mains supply must be provided within two metres of the control panel. Where live and neutral supplies can be identified, a fused spur with a 3A fuse must be fitted on the live circuit. Where live and neutral circuits cannot be readily identified, 3A fuses must be fitted to both circuits.

Connect the wires to the mains terminal block in the panel as follows:

- Blue (neutral) – connect to terminal N
- Green/Yellow (earth) – connect to terminal E
- Brown (live) – connect to terminal L

# Zones

Zones are the individual input circuits on Galaxy systems and are fully programmable in menu **52=Zones**.

## Zone Address Format

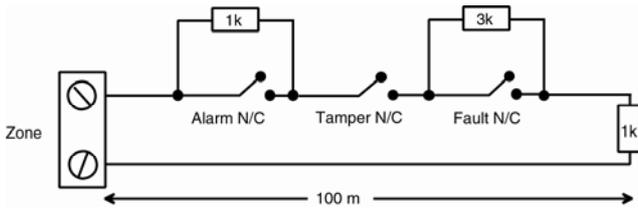


Galaxy zones are given addresses rather than zone numbers. This is because the zones are grouped into blocks of 8 called 'RIOs'. The left hand digit is the data bus line number. The second and third digits are the RIO address, which can be 00 to 15. The right hand digit is the individual zone number on the RIO (1-8). Each zone can also be given a text descriptor. By default, it is blank. There are 2 RIOs on board the panel (Line 1). The first RIO (00) has 8 zones addressed 1001 to 1008 and the second RIO (01) has 8 zones addressed 1011 to 1018.

All individual zone programming is done in menu **52**.

## Zone Wiring

The default zone configuration is 1k double-balanced with fault monitoring via a 3k resistor (preset 9). In the following configuration a mask condition is generated if an alarm and fault are signalled at the same time.



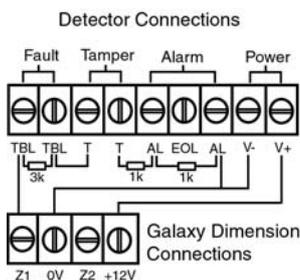
If no fault output is available, a mask output can be fitted with a 12k resistor as an alternative.

Any unused hardwire zones should always have a 1k resistor wired across the zone terminals to terminate them.

The configuration for the zones and the resistance preset values used can be reprogrammed from menu option **51.46 = Zone Resistance**. Each zone on the system can be further customised to a specific preset by using menu option **52.9=Resistance Select**. The cable run on each zone should be no more than 500 m. For presets 9 and 10 the cable run should be no more than 100 m.

## Detector Wiring

Detectors are wired to a zone as in the following diagram:



# Outputs

Galaxy outputs are addressed in the same way as the zones. However, there are only 4 outputs on each RIO. The on-board outputs are on RIO 0 and RIO 1. The addresses are 1001 to 1004 (RIO 0) and 1011 to 1014 (RIO 1).

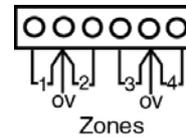
All individual output programming is done in menu **53**.

## Output Wiring

The on-board outputs are all open-collector switched negative. The load that is to be controlled by an output should be connected between +12 V and the output terminal. Output 1002 is a voltage-free relay output.

## Power Wiring

Auxiliary power can be drawn from the terminals marked +12V. The 'common' terminals on the zones are 0 volts. Terminals marked GND are also 0 volts.



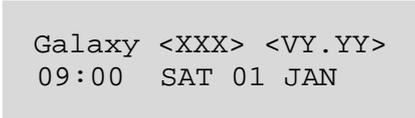
# Operation

## Default User Codes

Default User Code: **12345**  
 Default Engineer Code: **112233**

## First Boot-up

After all the peripherals have been wired and addressed, apply power to the system. The keypads will configure and show the default banner display.



Where: XXX = Panel type, VY.YY = Panel software version.

## Memory

Remove the Card fitted under the retaining clip on the memory backup battery. This retains the panel memory for up to 1 year in the event of a complete power fail. To completely erase the system memory and return to the default settings, replace a piece of thin card between the retaining clip and battery then remove all power to the PCB for one minute. Re-apply power and remove the card. This is known as a **cold start**.

## Menu Access Operation/Navigation

Only valid codes can access the Galaxy Dimension menu options. Type the code then press **ent** to access the menu. Data entry is via the 0-9 function keys and the \* and # on the keypad.

The **A** > and < **B** keys are cursor or scroll keys and are used to scroll through options in menus.

The **ent** key is used to enter a PIN code and to accept screen information.

The **esc** key is used to cancel or exit from the current operation.

**NOTE:** Users cannot view or access options for which they are not authorised.

### How to get in and out of Engineer Mode

Entry to Engineer Mode is authorised by a user in menu option **48 = Engineer Access**. Following this, the engineer will have 5 minutes in which to enter his code. When the engineer code is entered three things happen:

- All system tampers become isolated.
- The engineer is given access to the full menu.
- The banner message is changed to indicate Engineer Mode.

To bring the system back out of Engineer Mode and reinstate all the tampers, from the banner, the engineer enters his code, but then presses the **esc** key rather than the **ent** key.

### How to Set and Unset

To **Full Set** the system, the user types their code then presses the **A** key.

To **Part Set** the system, the user types their code then presses the **B** key.

To **Unset** the system, the user types their code then presses **ent**. Alternatively, presenting a valid tag at a prox reader or pressing the 'Off' key on a wireless keyfob can also unset the system.

**NOTE: In the UK, on DD243 compliant systems, a user code cannot normally be used to unset the system. A prox tag must be used. A code can only be used after an alarm condition has occurred. This can be altered in menu 51-54=Keypad Access**

### How to Cancel an Alarm, Tamper or Fault

Alarms, tampers and fault conditions can be cancelled by entering a user code at a keypad. When the code is entered, the conditions activated will be displayed. The scroll keys (**A>** and **<B**) can be used to view all the events. Alarm conditions can also be cancelled by pressing the 'Off' button on a wireless keyfob or by presenting a valid tag at a proximity reader. However, a code may need to be entered at a keypad in order to see and restore the alarms.

### How to Restore an Alarm

Alarms, tampers and fault conditions will be restored provided:

- The cause has cleared and
- A user with sufficient authority has viewed the condition on a keypad (any user if technistore).

To reset a Grade 3 compliant system, check first that the condition itself has actually cleared. Then, from the banner, type in a valid code and view the condition. Press **esc** to finish. This order of events must be followed to comply with EN50131.

If a user is unable to restore an alarm, then a manager or engineer will have to be called, according to the indication given on the keypad.

## Code Tampers

When enabled (see menu option **51.62 = Lockout**), this parameter controls two things: keypad lockout and system tamper.

**Keypad lockout** occurs if a pre-programmed number of invalid codes (1-10, default 6) are entered. The lockout lasts for 90 seconds. Each subsequent invalid attempt causes a further 90 second lockout to occur.

**System tamper** occurs when a pre-programmed number of invalid codes (1-21, default 15) are entered.

**Note:** The above lockouts also apply to invalid prox tags presented to prox readers, as well as codes.

## Groups

The Galaxy Dimension has the ability to be split into areas or subsystems called **Groups**. The number of groups is dependent on panel variant. Each zone can be assigned to one group. Users can be assigned to one or many groups. To enable group mode, turn it on in menu option

### 63.1.1=Group Mode.

Groups can be assigned to individual users in menu option **42.1.6.=Modify Groups**. This allows users the choice of which groups to set and unset.

## Menu Summary

All the functions of the panel are accessible via the menu. The top level of the menu is summarised below:

10 = Setting	20 = Display	30 = Test
11 = Omit Zones	21 = Zone Status	31 = Walk Test
12 = Timed Set	22 = Display Log	32 = Output Test
13 = Part Set	23 = System Version	
14 = Forced Set	24 = Print	
15 = Chime	25 = Access Doors	
16 = Instant Set		
17 = Silent Part		
18 = Home Set		
19 = All Set		

40 = Modify	50 = Engineer 1	60 = Engineer 2
41 = Time/Date	51 = Parameters	61 = Diagnostics
42 = Codes	52 = Program Zones	62 = Full Test
43 = Summer	53 = Program Outputs	63 = Options
44 = Trace	54 = Links	64 = Assemble Zone
45 = Timer Control	55 = Soak	65 = Timers
46 = Group Omit	56 = Communication	66 = Pre-Check
47 = Remote Access	57 = System Print	67 = Remote Reset
48 = Access Auth.	58 = Keypad	68 = Menu Access
	59 = Quick Menu	69 = Access Control

70 = Engineer 3
71 = Program Key

Each of these headings has its own sub options that can be accessed using the **ent**, **esc** and scroll keys.

The most important menu options are summarised below:

## System Programming

### 63=Options

Start with this menu to select Group mode. Group mode needs to be turned on if the system is to be split into independent groups.

## 51=Parameters

In this menu, all the general parameters are set up, such as Bell time, entry/exit time, reset levels, and part set signalling parameters. Select each particular parameter by using the scroll keys (**A>** and **<B**) and press **ent** to edit the settings for that parameter. Many parameters will have a separate setting for each group, if group mode is enabled.

## 52=Zones

In this menu, the function of each individual zone input can be customised. Select the zone address using the scroll keys (**A>** and **<B**) and press **ent** to access the parameters for that zone.

## 53=Outputs

In this menu, the function of each individual output can be customised. Select the output address using the scroll keys (**A>** and **<B**) and press **ent** to access the parameters for that output.

## 69 = Access Control

In this menu, door access is controlled by either a MAX module or a Door Control Module (DCM). The Mode needs to be enabled if prox tags are to be used with a keyprox, MAX reader or DCM reader.

## 56=Communications

In this menu, Alarm signalling to the ARC can be configured. First, select the module type from the list using the scroll keys (**A>** and **<B**) then press **ent** to access the parameters for that module. The account number, Telephone no/IP address and format need to be programmed to enable basic communications.

**Note:** Telecom modules are not suitable for alarm signalling on EN50131 Grade 3 systems.

## 42=Users

In this menu, use the further sub menu called **User Codes** to program the attributes of individual users. Each user on the system can have the following assigned: PIN code, Prox tag, Type (authority level) and Group. PIN codes must be at least 5 digits on Grade 3 compliant systems.

To program a Prox tag, first make sure Access mode is enabled. Next select the user required then select option 7 Card no. on a keyprox, press **1 & A** together then present the user's tag to the bottom of the keypad. The number will enter automatically. For use on MAX readers, simply type in the number printed on the MAX tag. Press **ent** to save. To allow setting and unsetting with the tag, option 8 MAX MENU must be programmed as 12=Timed set for each user.

## Built-in Comms

The Galaxy Dimension has a built-in telephone dialler. The incoming telephone line should be wired to the '**Line A B**' terminals next to the phone symbol. The alarm panel should always be the first device on the phone line. Additional extensions should be connected to the serial terminals marked '**PHONE A B**'. This will allow the panel to snatch the line when it needs to dial out.

**Note:** Signalling via the on-board Telecom module will meet EN50131/PD6662 Grade 2 requirements only. It should not be used for alarm signalling to an ARC on Grade 3 installations.

All comms programming is done in menu **56**.

## Connecting External Comms

When connecting external comms devices via the on-board outputs, ensure that the outputs are switched to pull-up operation. This is done by switching ON the first 7 switches on the 8-way dipswitch on the lower right corner of the PCB. Leave the 8<sup>th</sup> switch in the OFF position in. By default, the outputs are in "open collector" mode. The output functions can be programmed in menu 53.

## Remote Servicing

When using Remote servicing, The **System ID** field in menu **51.15.1=System Text** should be programmed. This field is used to identify the panel to the PC software and is a string up to 16 characters in length. Typically it can be the installation's contract number.

To comply with EN50131, the panel is defaulted to only allow connection to remote servicing software, if authorised via menu 47.1. Set this to Direct access on the appropriate communication device and dial-in connection will be authorised for 40 minutes. Alternatively, a dial out to the remote servicing software can also be initiated from this menu.

## Remote Routine Inspection

A Remote Routine Inspection (RRI) is a regular system check to assess its health and performance.

### How to Set Up RRI

- Select **Call Back** number 1 (menu option 56.1.12.2.3).
- Enter the **Start Time** and **End Time** for the Inspection (menu option 47.4.2). The panel will dial out at a random time between the **Start Time** and **End Time**.
- Enter the Scheduled number of days between auto RRI communications (menu option 47.4.6.1). The number of days is selectable from 0-365.
- Select **No Code/Notice** (menu option 47.4.6.2.3).

## Zone Activity Monitoring

Zone activity can be monitored by programming a type in menu option 52.8. The zones are checked for activity during a set time period or set/unset cycles programmed in menu option 51.61. If the zone does not activate at least once within the programmed criteria a zone masked fault is indicated at the panel.

## Access Control

Door Control Modules (DCMs) can be added onto the Galaxy bus lines to add fully integrated access control. Each DCM allows two Wiegand readers to be connected to control two separate doors or one door with an entry and exit reader.

### Group based Access control

Access control works best when **Group Mode** is enabled (see above). Each access reader can then be programmed to control access to a particular group (or area/subsystem) within the building. Only users who have access privileges to that group will be granted access via that reader.

### Users and Access Templates

Every user on the system must be allocated an access template. An access template is a list of **groups** and **time schedules** that will dictate which groups and when a user is able to gain access to. This method means that if there are multiple doors leading into one group or area, then a user will be given access to all those doors in one move. This reduces programming time and complexity.

The Access Template to be used for each user is chosen within each user's options in menu **42.1.11 = Template**. There are multiple access templates available (dependant on panel variant) and each one is fully customisable.

**Access Templates** are programmed in menu **45.7 = Access Templates**. In each Access Template each group on the system must be allocated a time schedule as required. If no schedule is allocated to a particular group (default) in the list then users will have full access through any doors leading to that group. When a schedule is allocated, access will be granted during the OFF periods of the schedule and denied during the ON periods. Time schedules are programmed in menu **65 = Timers**.

### Time schedules

A Time schedule is a weekly list of on and off times and can be used to control the security of any object that it is assigned to. When a timer is **ON** it forces a **secure** state (system set, access denied etc). When a timer is in the **OFF** state, it causes an **un-secure** state (system unset or access allowed etc). Up to 28 on or off times can be programmed into each weekly schedule. Up to 67 schedules are available dependant on panel variant.

For each time schedule, it is possible to allocate one of 32 Holiday Calendars. A Holiday Calendar is a list of 20 holiday periods, each with a start and end date, which suspend normal timer operation. During a holiday period, one of two things can happen.

1. The timer is frozen in its current state (on or off) and will resume operation from the next event when the holiday period finishes.
2. An alternate time schedule can be appointed to be used for the duration of the holiday period.

## Panel Specifications

### Mechanical

#### All variants

Enclosure (with PCB and transformer)	Width: 440 mm Height: 325 mm Depth: 88 mm Weight: 6.4 kg
Physical space for batteries	2x17Ah Max (not suitable for 12Ah batteries)

PCB only	Width: 265 mm Height: 120 mm Depth: 47 mm Weight: 0.3 kg
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Operating Temperature: -10°C to +55°C

### Electrical

	GD-48	GD-96	GD-264/520
Mains Input:	230 V ac (+10%, -15%) @ 50 Hz		
Power Supply:	Type A		
Battery Type	Sealed Lead-Acid (not included)		
Max ripple voltage	50.0 mV		
Max Current rating*	0.5A	1A	1A
Minimum standby battery capacity required for Max load:			
EN50131 @ 30 hrs	21Ah	30Ah	30Ah
PD6662 @ 12 hrs	8.4Ah	12Ah	12Ah
Total PSU output	2.5A	2.5A	2.5A
Aux +12 V outputs:	12 V nominal		
Fuses – all 20 mm Anti-surge			
AUX1	1.0A	1.0 A	1.0 A
AUX2	-	1.0 A	1.0 A
BELL	1.0A	1.0 A	1.0 A
BATT	1.0A	1.6 A	1.6 A

\*Ratings for EN50131 Grade 3 – Max total +12V output load including Bell output load.

PSTN	V.22 Modem 1200 Baud
RS232	300 – 56k programmable
RS485	9600 Baud, Full Duplex, Asynchronous

### EN50131 Compliance

This product is suitable for use in systems designed to comply with TS50131-3

Security Grade: 3  
Environmental Class: II  
Power Supply Type: A

The built-in Telecom module is for Remote servicing use only on Grade 3 systems. An external Grade 3 communicator or Ethernet module must be used for alarm signalling.

The built-in Telecom module can be used for alarm signalling on Grade 2 systems:

Alarm Transmission System: 2  
(options A, B, C & X)

This product is suitable for use in systems designed to comply with EN50131-1: 1997

Security Grade: 2  
Environmental Class: II  
Alarm Transmission System: 2  
(options D2, T2, A2, S0, I0)  
Power Supply Type: A

## Compliance and Approvals

This product has been independently tested and certified by CNPP to EN50131-3.

The Galaxy Dimension is compatible with the relevant parts of the following standards:

- EN50131-1:2006** Alarm systems - Intrusion systems  
General requirements (grade 3).
- TS50131-3** Alarm systems - Intrusion systems: Part  
3 Control and indicating equipment  
(grade 3).
- prEN50131-5-3** Alarm systems - Intrusion systems: Part  
5-3 systems using wire-free  
interconnections (grade 2).
- EN50131-6:1998** Alarm systems - Intrusion systems -  
Power supplies (grade 3).
- EN50136-1-1:1998** Alarm systems – Alarm transmission systems  
and equipment – General requirements for  
alarm transmission systems.
- EN50136-1-3:1998** Alarm systems – Alarm transmission systems  
and equipment- Requirements for systems  
with digital communicators using the public  
switched telephone network.
- EN50136-2-1:1998** Alarm systems – Alarm transmission systems  
and equipment – General requirements for  
alarm transmission equipment.
- EN50136-2-3:1998** Alarm systems – Alarm transmission systems  
and equipment – Requirements for  
equipment used in systems with digital  
communicators using the public switched  
telephone network.
- CE Standards**, including all EN safety and EMC standards.
- R&TTE 99/5/EC**
- PD6662:2004** Scheme for the application of European  
Standards for intruder alarm systems.
- DD243** Installation and configuration of intruder  
alarm systems designed to generate  
confirmed alarm conditions – code of  
practice

### **BSIA guidelines for Remote Maintenance to systems installed to EN50131-1.**

#### **Public Switched Telephone Network (PSTN) Approval**

The equipment has been approved to Council Decision 98/482/EC for Pan -European single terminal connection to the Public Switched Telephone Network (PSTN). However due to differences between the individual PSTNs provided in different countries the approval does not, of itself, give an unconditional assurance of successful operation on every PSTN network termination point. In the event of problems contact the equipment supplier in the first instance. The Galaxy Dimension is designed to interwork with the following networks:

Austria	France	Italy	Norway	Switzerland
Belgium	Greece	Liechtenstein		Portugal
United Kingdom		Denmark	Iceland	Luxembourg
Spain	Germany	Finland	Ireland	The Netherlands
Sweden				

**NOTE:** Contact the equipment supplier before using the Galaxy Dimension on any network not listed.

## **HONEYWELL SECURITY LIMITED WARRANTY**

Honeywell Security, and its divisions, subsidiaries and affiliates (“Seller”), 165 Eileen Way, Syosset, New York, 11791, warrants its products to be in conformance with its own plans and specifications and to be free from defects in materials and workmanship under normal use and service for 24 months from the date stamp control on the product. Seller’s obligation shall be limited to repairing or replacing, at its option, free of charge for materials or labour, any product that is proved not in compliance with Seller’s specifications or proves defective in materials or workmanship under normal use and service. Seller shall have no obligation under this Limited Warranty or otherwise if the product is altered or improperly repaired or serviced by anyone other than Honeywell factory service. For warranty service, return product transportation prepaid to:

**Honeywell Security, 6 Aston Fields Road, Whitehouse Industrial Estate, Runcorn, Cheshire WA7 3DL**

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Seller does not represent that the products it sells may not be compromised or circumvented; that the products will prevent any personal injury or property loss by burglary, robbery, fire or otherwise; or that the products will in all cases provide adequate warning or protection. Customer understands that a properly installed and maintained alarm may only reduce the risk of a burglary, robbery, fire or other events occurring without providing an alarm, but it is not insurance or a guarantee that such will not occur or that there will be no personal injury or property loss as a result.

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This warranty replaces any previous warranties and is the only warranty made by Seller on this product. No increase or alteration, written or verbal, of the obligations of this Limited Warranty is authorized.

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