

Product Engineering Guide

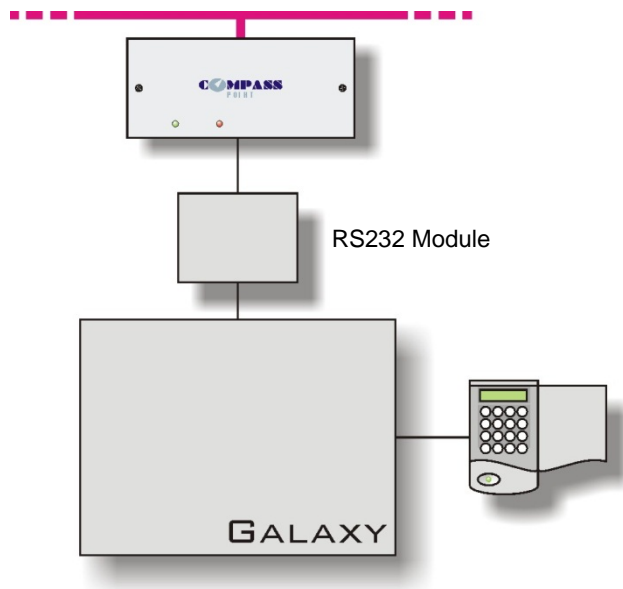
Compass v22 Galaxy v12 RS232

Introduction

The Galaxy Compass Point links a Honeywell Security (previously Ademco Microtech) Galaxy alarm system to the Compass Network. The Galaxy Classic, 3 Series, and Dimension ranges are supported by this interface.

Galaxy 3 Series panels with a model reference ending with 'C' support an on-board RS232 port. E.g. models 3-48C, 3-144C, etc. All other 3 Series panels and the Galaxy Classic range require an optional RS232 module to be fitted to line 1.

The RS232 port or module must be configured with the settings shown in Engineering Step 2 below.



Supported Range

- Galaxy Classic Panel – 8/18/60/500/512 zone panel.
- Galaxy Series 3 Panel with onboard RS232 – 3-48C, 3-144C, 3-520C.
- Galaxy Series 3 Panel with external RS232 module – 3-144, 3-520.
- Galaxy Dimension Panel with onboard RS232 – GD-48, GD-96, GD-264, GD-520.

Notes

The Galaxy panel can send alarm events to the Compass Network. These may be sent to a North alarm module for processing, such as AlarmStore, AlmXlate, etc.

The Galaxy system does not provide logging facilities. If logging of values is needed then a North logging module will be required, such as Data Manager or LogMax.

Engineering

Step 1 – Mount the Compass Point

Refer to the 'Mounting' section within the '[Compass Point RS232 Installation Guide](#)' document for details on how to mount the Compass Point securely to a wall or within a cabinet.

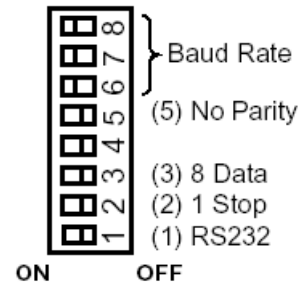
Step 2 – Configure Galaxy System

RS232 External Interface Module

The Galaxy RS232 module, if used, should be installed on line 1 only.

Configure the 8-way DIP switch as follows:

Switch		Setting
1	Protocol: RS232	Off
2	Stop Bits: 1	Off
3	Data Bits: 8	Off
4	Parity: n/a	Off
5	Parity Enable: None	Off
6	Baud Rate: 38400	On
7	Baud Rate	On
8	Baud Rate	On



Check the RS232 module is configured from LED LD1. This will flash once per second (0.1 sec on, 0.9 sec off) to indicate normal communications between the module and panel.

Refer to the Galaxy document IO1-0054 for more information.

Configure the RS232 Module or Onboard RS232 Port from the Panel

Use the Galaxy keypad to configure the RS232 module. Engineer Mode should be enabled first (*the default engineer code is 112233*).

- Go to option [56] Communications.
- Then either option [6] Int RS232 (internal RS232 module); or option [2] Ext RS232 (external RS232 module).
- Set [1] Mode to Direct
- Set [2] Format to SIA, level 4. Then from the list of trigger events select which you would like an alarm message to be sent to ObServer.
- Set [3] Account No. to a 4-6 digit number. This has to be set up in order to receive any alarms from the system.
- For the onboard RS232 port also set [4] Comms Setup: Baud Rate 38400; Data Bits 8; Stop Bits 1; Parity No parity.

Refer to the Galaxy Programming Manual for more information.

Access Codes

Make a note of the Remote Access code (*default 543210*). For a Series 3 panel, this is the last user code; e.g. user 250 on a 3-144 panel or user 999 on a 3-520 panel.

This password should be configured within the Galaxy Compass Point later.

Step 3 – Connect Compass Point to Galaxy System

Using cable, connect the Galaxy system to the RS232 port of the Compass Point. Refer to the section 'Cable' below for details of the cable.

NOTE: If the Galaxy panel is in engineering mode the Compass Point will be unable to log on to the system.

Step 4 – Apply Power to the Compass Point

Refer to the 'Power' section within the '[Compass Point RS232 Installation Guide](#)' document. Once power is applied, the green LED should be lit continuously to show that the Compass Point is working correctly on the Compass Network.

Step 5 – Configure the Galaxy driver within Compass Point

The baudrate, byte format, password, device label, device type, device number and alarm polling facilities are configured using objects. Use object engineering software to view and modify the objects within the Compass Point.

Step 6 – Access Objects within the Galaxy System

The Galaxy panel's remote access logon password, panel type, RS232 baud rate, RS232 byte format and alarm destination are configured using objects. Use object engineering software, such as ObView, to view and modify the module objects within the Point.

Set the password to match the panel's remote access code, the baud rate to 38400, and the byte format to N81.

The red LED near the RS232 port of the Compass pulses when a valid message is transmitted or received by the Compass Point.

Step 7 – Configure the Transfers within the Compass Point

Compass Point transfers are also configured using objects. Refer to the '[Introduction to Compass Transfers](#)' document for more details.

Step 8 – Configure the Alarm Handling within the Compass Point

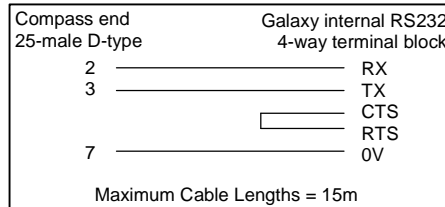
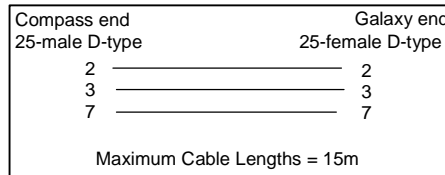
Compass Point alarm handling is also configured using objects. Refer to the '[Introduction to Compass Alarms](#)' document for more details.

The types of alarm messages sent from the Galaxy panel are configured within the Communications section of the panel.

Engineering Reference

Cable Specification

The cable between the Compass Point and the Galaxy RS232 module or Galaxy internal RS232 port is as follows:



Objects

When the Compass Point is powered-up the following objects are created on the Compass Network, use object software to access these objects.

Object	Label	R/W	Type
$Dn^{[1]}$	Galaxy Device	-	Panel ^[2]
$Pp^{[3]}$	Galaxy Compass Point	-	[Compass v22\Galaxy v12]

Notes

[1] The Device Number, n , is a number in the range 0...63.

[2] Dependent on the panel type, this object can be one of the following:

Type	Meaning
[Galaxy v12\GD-48]	Galaxy Dimension 48 zone panel
[Galaxy v12\GD-96]	Galaxy Dimension 96 zone panel
[Galaxy v12\GD-264]	Galaxy Dimension 264 zone panel
[Galaxy v12\GD-520]	Galaxy Dimension 520 zone panel
[Galaxy v12\G3-144]	Galaxy 3 Series 3-144 or 3-48 panel
[Galaxy v12\G3-520]	Galaxy 3 Series 3-520 panel
[Galaxy v12\G8]	Galaxy Classic G8 panel
[Galaxy v12\G18]	Galaxy Classic G18 panel
[Galaxy v12\G60]	Galaxy Classic G60 panel
[Galaxy v12\G500]	Galaxy Classic G500 panel
[Galaxy v12\G512]	Galaxy Classic G512 panel

[3] If the Compass Point has its device number configured the Point address, p , is a number in the range 1...63. If no device number is set the Point address, p , is the Compass Point serial number in the range 1000000...9999999

Engineering

Revision History

Version	Build Date	Details
1.0	01/12/2001	Driver released.
1.0	26/07/2002	Minor enhancements.
1.1	27/10/2003	Cache data to improve speed. Zone objects changed slightly.
1.2	19/02/2007	Improvements to work with 3 Series panels: Zone cache now stores for 2 seconds, previously 5. Modified panel type to configure 3 series panel. Fix: Zone numbers over 1020 on 3 series
1.2	15/6/2009	Improvements for Dimension panel contents