

Product Engineering Guide

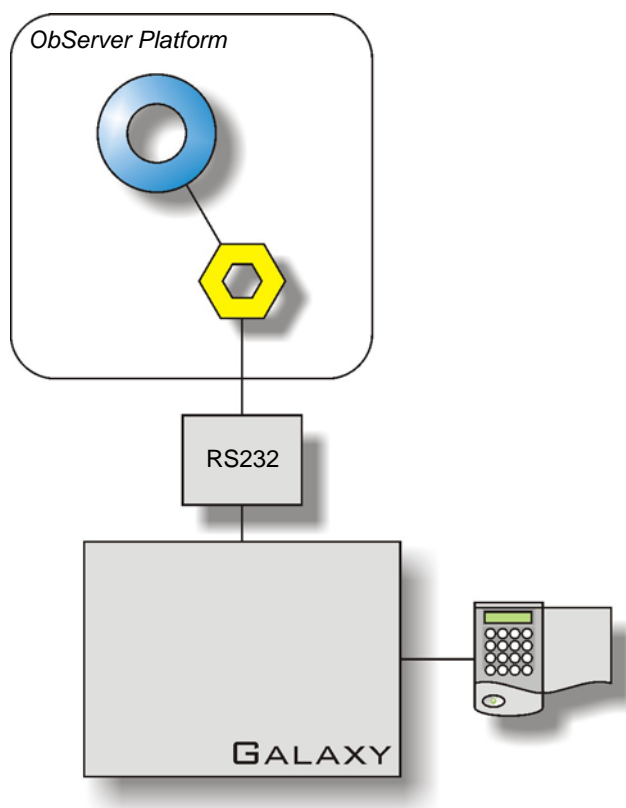
OSM v20 Galaxy v12

Introduction

The Galaxy OSM links a Honeywell Security (previously Ademco Microtech) Galaxy alarm system to ObServer. 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 with onboard RS232 – GD-48, GD-96, GD-264, GD-520.

Notes

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

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

Engineering

Step 1 – Install OSM

The Galaxy OSM is installed automatically with all ObSys editions. Refer to the 'ObSys CD sleeve' for details on how to install ObSys.

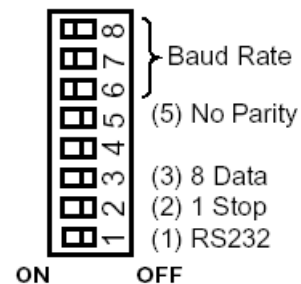
Step 2 – Configure Galaxy System

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 [2] Ext RS232 (external RS232 module); or option [6] Int RS232 (for 3 Series panels with internal RS232 port).
- 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 OSM later.

Step 3 – Connect COM Port to Galaxy System

Using cable, connect the Galaxy system to a COM port of the PC. Refer to the section 'Cable' below for details of the cable.

Step 4 – Plug in Galaxy OSM to ObServer

Use object-engineering software, such as ObView, to locate the ObServer Setup object. Assign the Galaxy OSM to an available channel. Refer to '*ObServer v20 Application Engineering Guide*'.

Note: After inserting the OSM, your engineering software may need to re-scan the ObServer object in order to view the OSM.

Step 5 – Configure the Galaxy Interface within OSM

The Galaxy panel's remote access logon password, panel type, COM port, 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 OSM.

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

Step 6 – Access Objects within the Galaxy System

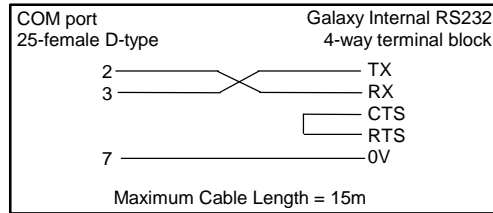
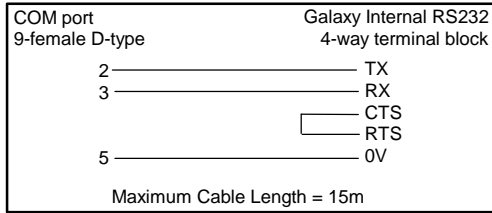
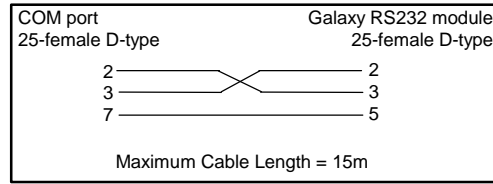
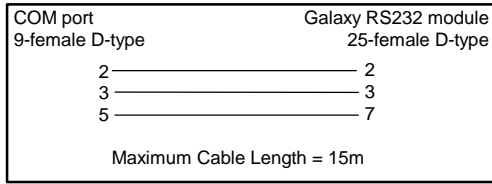
Values from the Galaxy system are made available as objects from ObServer. Any object software that is connected to the ObServer can access these objects.

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

Engineering Reference

Cable Specification

The cable between COM port and either the Galaxy RS232 module or Galaxy internal RS232 port is as follows:



Objects

When the OSM is loaded the following objects are created within ObServer, use object software to access these objects.

Object ^[1]	Label	R/W	Type
Sc	Galaxy System connected to channel c	-	Panel ^[2]
Mc	Galaxy Module connected to channel c	-	[OSM v20\Galaxy v12]

Notes

[1] The ObServer channel number, c, is a number in the range 1...40.

[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

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