# Product Engineering Guide

OSM v20 Safegard v10

Introduction

The Safegard OSM links the Safegard Systems V3 fire damper control system to ObServer. The Safegard OSM supports the Safegard V3 panel protocol which is incorporated within various damper manufacturers' products including Actionair, Ruskin, Flamgard and Gebhardt.

This driver interface is compatible with the Safegard System version 3.25.4.0 or later. Refer to the Engineering section for configuration information.
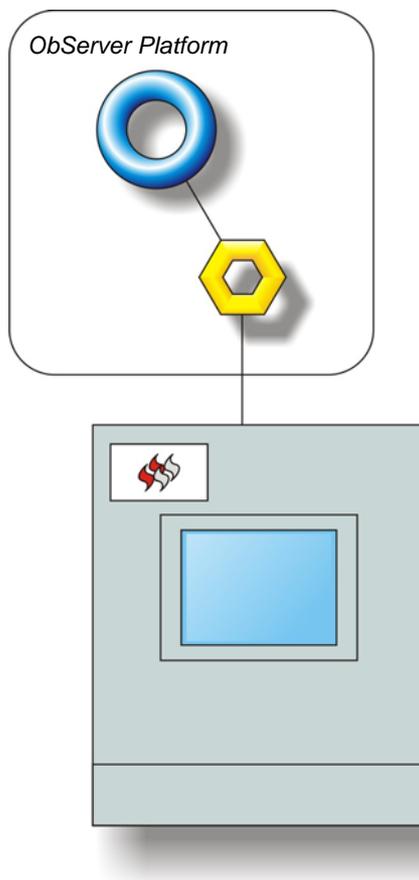
Notes

The Safegard system supports objects to monitor the position of the connected dampers. No control is available.

The Safegard system does not generate alarm messages. If alarm events are required the North AlarmGen or UserData modules may be used.

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

Engineering

Step 1 – Install OSM

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

Step 2 – Configure the Safegard system

The Safegard System Engine (v3.25.4.0 or later) should be configured using the System Builder application. Under the Tools > Environment Options > BMS tab, configure the following (default settings):
COM1, 9600 baud, 8 data bits, no parity, 1 stop bit, software flow control, generic protocol.

Each damper is assigned a handle that may be viewed from the Safegard System Builder. Each handle is up to four numerical digits and is the damper reference used by the North Safegard driver.

Step 3 – Connect COM Port to Safegard V3 Panel

Using cable, connect the Safegard touch screen RS232 port to a COM port of the PC. Refer to the section 'Cable' below for details of the cable.

Step 4 – Plug in Safegard OSM to ObServer

Use object engineering software to locate the ObServer Setup object. Assign the Safegard 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 Safegard OSM

The COM port is configured using objects. Use object engineering software to view and modify the module objects within the OSM.
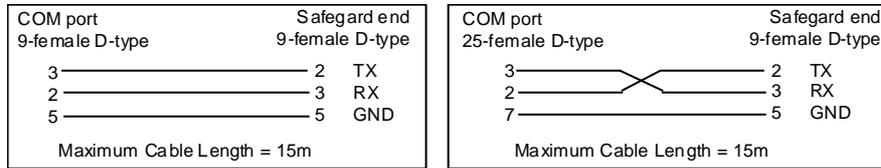
Step 6 – Access Objects within the Safegard System

Values from the Safegard Systems V3 fire damper panel are made available as objects from ObServer. Any object software that is connected to the ObServer can access these objects.

Engineering Reference

Cable Specification

The cable between the COM port and the Safegard Panel is though a 9-way D-type connector labelled 'COM1' and is as follows:

```
COM port                Safegard end          COM port                  Safegard end
9-female D-type        9-female D-type        25-female D-type          9-female D-type

3 ──────────────── 2  TX                3 ──────────╲  ╱────────── 2  TX
2 ──────────────── 3  RX                2 ──────────  ╳  ────────── 3  RX
5 ──────────────── 5  GND               7 ──────────╱  ╲────────── 5  GND

   Maximum Cable Length = 15m              Maximum Cable Length = 15m
```

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	Safegard System connected to channel c	-	*[Safegard v10]*
Mc	Safegard Module connected to channel c	-	*[OSM v20\Safegard v10]*

Notes

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