

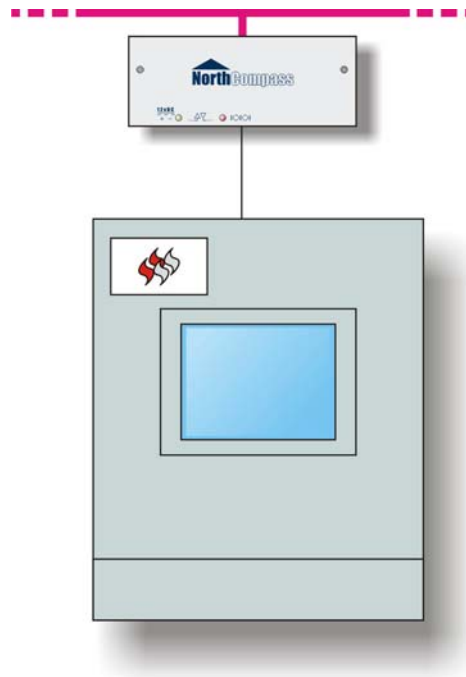
Product Engineering Guide

Compass v22 Safeguard v10 RS232

Introduction

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

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



Notes

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

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

The Safeguard 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 – Mount the Compass Point

Refer to the 'Mounting' section within the 'RS232 Compass Point Hardware' document for details on how to mount the Compass Point securely to a wall or within a cabinet.

Step 2 – Configure the Safeguard system

The Safeguard 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 Safeguard System Builder. Each handle is up to four numerical digits and is the damper reference used by the North Safeguard driver.

Step 3 – Connect Compass Point to Safeguard V3 Panel

Inside the Safeguard Panel connect the touch screen RS232 port to the RS232 port of the Compass Point. Refer to the section 'Cable' below for details of the RS232 cable required.

Step 4 – Apply Power to the Compass Point

Refer to the 'Power' section within the 'RS232 Compass Point Hardware' 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 Safeguard driver within Compass Point

The device number is configured using objects. Use object engineering software, such as ObView, to view and modify the objects within the Compass Point.

Step 6 – Access Objects within the Safeguard Panel

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

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 'Transfers' section within the 'Compass Point Overview' document for more details.

Engineering Reference

Cable Specification

The cable between the Compass Point and the Safegard V3 fire damper control panel is through a 9-way D-type connector, as follows:

Compass end 25-male D-type		Safegard end 9-female D-type	
2	—————	3	TX
3	—————	2	RX
7	—————	5	GND

Maximum Cable Length = 15m

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
$Dn^{[1]}$	Safegard Device	-	[Safegard v10]
$Pp^{[2]}$	Safegard Compass Point	-	[Compass v22\Safegard v10]

Notes

- [1] The Device Number, n , is a number in the range 0...63.
- [2] 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