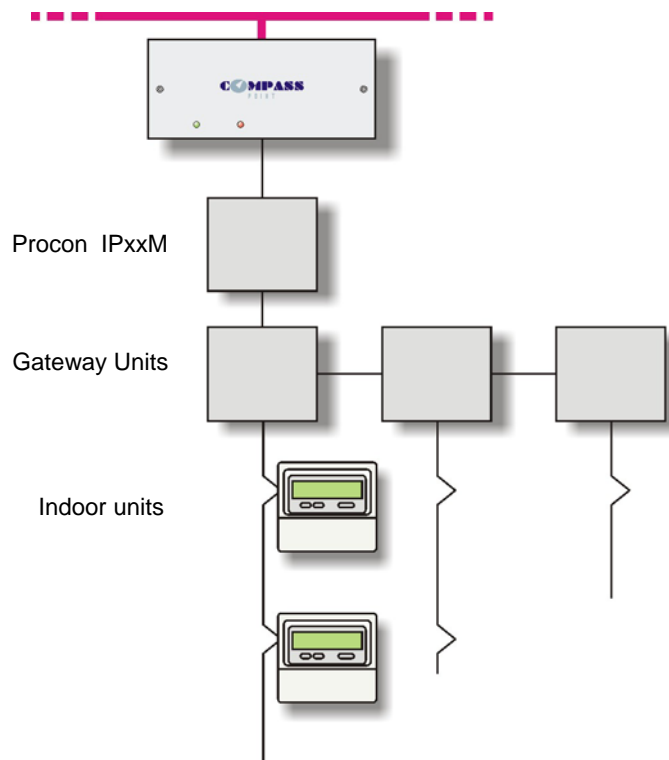


Product Engineering Guide

Compass v22 MitsubishiIP v10 RS232

Introduction

The MitsubishiIP Compass Point links a Mitsubishi Electric City Multi or Mr Slim air conditioning system, via a Procon IPxxM interface unit, to the Compass Network. The system consists of indoor units reporting to the Procon IPxxM unit. Each indoor unit can be monitored, and set points and operating modes can be controlled.



Supported Range

- City Multi Series - up to 50 indoor units via a Procon IP50M or 32 indoor units via a IP32M
- Mr Slim Series - up to 50 indoor units via a Procon IP50M or 32 indoor units via a IP32M

Notes

As well as the IP50M and IP32M, there is also an IP100M available. This is essentially two IP50Ms in a single enclosure, each with a separate communications port and so must be treated as two IP50Ms.

The Mitsubishi system does not report alarms to Compass. If alarms are needed then an AlarmGen device will be required.

The Mitsubishi system does not provide logging facilities to Compass. If logging of values is needed then a LogMax device will be required.

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 Mitsubishi System

Unique addresses must be set up in the Indoor units.

Step 3 – Connect Compass Point to Mitsubishi System

Using cable, connect the 9-way D-type connector marked 'Com1A' (or 'Com2A' if connecting to the second unit within a IP100M) on the interface unit to the RS232 port of the Compass Point. Refer to the section 'Cable' below for details of the cable.

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 MitsubishiIP driver within Compass Point

The Procon type, device number and device label 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 Mitsubishi System

Values from the Mitsubishi system 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 '[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.

Engineering Reference

Cable Specification

The cable between the Compass Point and the Interface unit is as follows:

Compass end 25-male D-type	IPxxM end 9-male D-type
2	2
3	3
7	5

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]	Mitsubishi System	-	[MitsubishiIP v10]
Pp ^[2]	Mitsubishi Compass Point	-	[Compass v22\MitsubishiIP 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