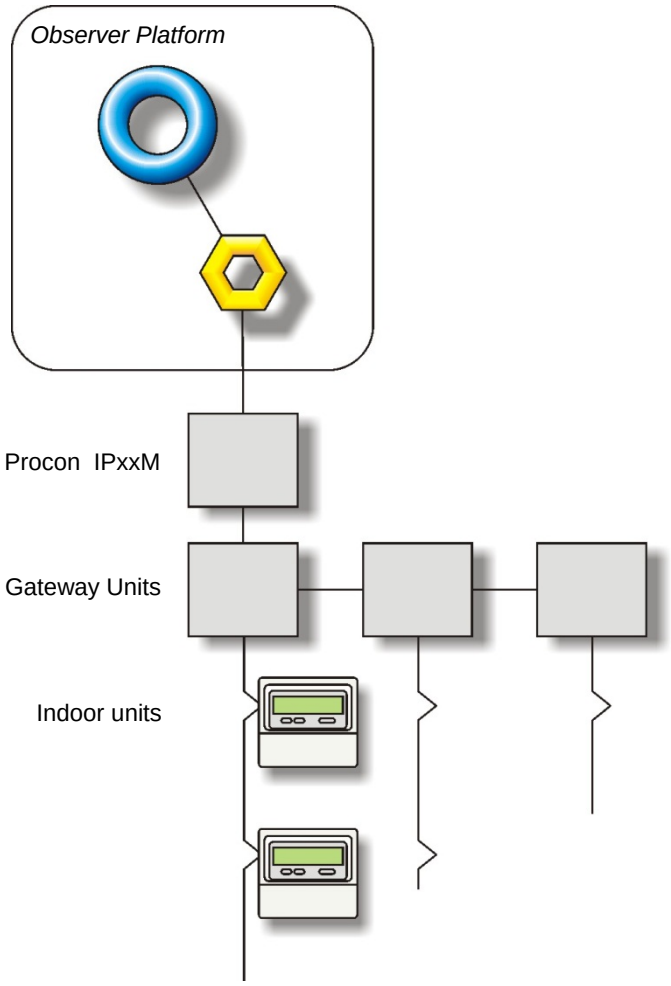
Product Engineering Guide

OSM v20 MitsubishiIP v10

Introduction

The MitsubishiIP OSM links a Mitsubishi Electric City Multi or Mr Slim air conditioning system, via a Procon IPxxM interface unit, to ObServer. 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.

UPDATE: The MitsubishiIP v10 interface has now been replaced by *MitsubishiG50 v10*, connecting directly to the G-50 or AG-150 via an IP network and no longer requiring the additional Procon interface.



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 ObServer. If alarms are needed then an AlarmGen device will be required.
The Mitsubishi system does not provide logging facilities to ObServer. If logging of values is needed then a Data Manager will be required.

Engineering

Step 1 – Install OSM

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

Step 2 – Configure Mitsubishi System

Unique addresses must be set up in the Indoor units.

Step 3 – Connect OSM 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 COM port of the PC. Refer to the section 'Cable' below for details of the cable.

Step 4 – Plug in MitsubishiIP OSM to ObServer

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

The Procon type, device label, alarm polling facilities, and alarm destination are configured using objects. Use object engineering software to view and modify the module objects within the OSM.

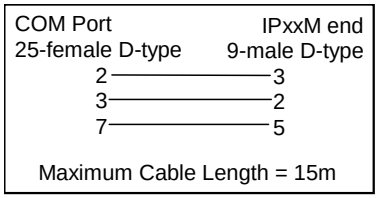
Step 6 – Access Objects within the Mitsubishi System

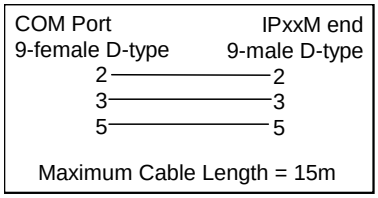
Values from the Mitsubishi system are made available as objects from ObServer. Any object software that is connected to the ObServer can access these objects.

Engineering Reference

Cable Specification

The cable between COM port on the PC and the Interface unit 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***
S*c*	Mitsubishi System connected to channel *c*	-	*[MitsubishiIP v10]*
M*c*	MitsubishiIP Module connected to channel *c*	-	*[OSM v20\MitsubishiIP v10]*

Notes

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

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