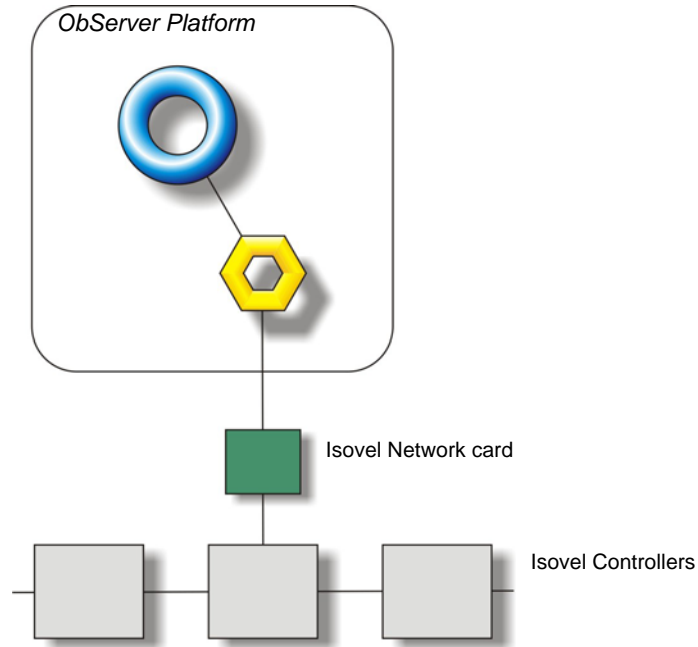# Product Engineering Guide

OSM v20 Isovel v10

Introduction

The Isovel OSM links a network of Isovel air conditioning units to ObServer. These air conditioning systems were originally manufactured by Isovel International Ltd, and then by Temperature Ltd, Clivet Ltd and Clivet UK Ltd.

ObServer Platform

Isovel Network card

Isovel Controllers

The Isovel OSM can communicate with up to several Isovel controllers connected to a network card, and is capable of providing remote control and monitoring of the following:

- Set points
- Alarms
- Units status; run/stopped
- Output status

Engineering

Step 1 – Install OSM

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

Step 2 – Configure Isovel System

Each controller should be set with a unique unit number.

Step 3 – Connect COM Port to the Isovel Network

Using cable, connect the Isovel network controller to a COM port of the PC. Refer to the section 'Cable' below for details of the cable.

Step 4 – Plug in Isovel OSM to ObServer

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

The device label is configured using objects. Use object engineering software to view and modify the objects within the OSM.
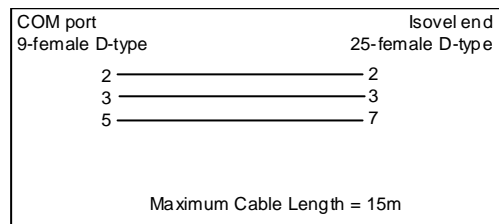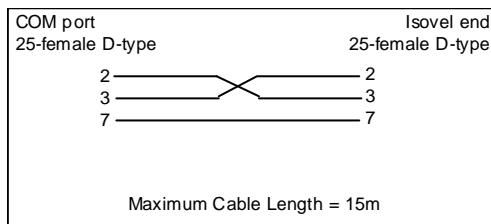
Step 6 – Access Objects within the Isovel System

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

Engineering Reference

Cable Specification

The cable between COM port and the Isovel network controller as follows:

COM port 25-female D-type	Isovel end 25-female D-type	COM port 9-female D-type	Isovel end 25-female D-type
2 —————╲╱————— 2 3 —————╱╲————— 3 7 ————————————— 7		2 ————————————— 2 3 ————————————— 3 5 ————————————— 7	
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
S*c*	Isovel System connected to channel *c*	-	*[Isovel v10]* [2]
M*c*	Isovel Module connected to channel *c*	-	*[OSM v20\Isovel v10]*

Notes

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

[2]   This object has a variable content and as such requires scanning.