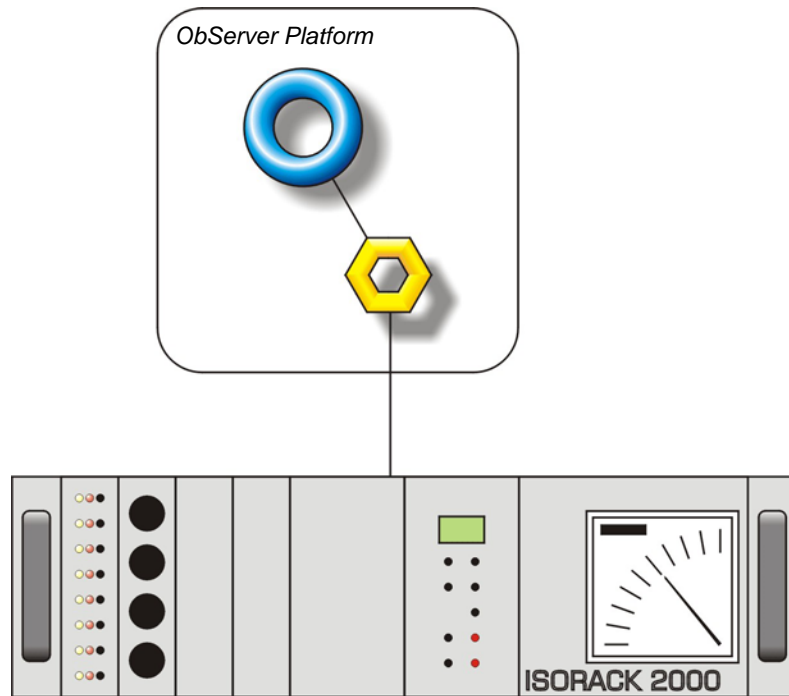# Product Engineering Guide

OSM v20 IsoRack v10

Introduction

The IsoRack v20 OSM links the Megacon AB ISORACK 2000 Earth Leakage Condition Monitoring System to Observer.

The IsoRack can accommodate up to 8 input modules, type MSI 2100 or MSI 2101. Each module has 8 channels; therefore a maximum of 64 channels can be monitored.

Note that although Alarm states are displayed in ObSys, they can only be cleared by pressing the reset button on the IsoRack panel.

Engineering

Step 1 – Install OSM

The IsoRack v20 OSM is installed automatically with all ObSys editions. Refer to the 'ObSys CD sleeve' for details on how to install ObSys.

Step 2 – Connect COM Port to ISORACK 2000 System

Using cable, connect the ISORACK 2000 to a COM port of the PC. Refer to the section 'Cable' below for details of the cable.

Step 3 – Plug in IsoRack OSM to ObServer

Use object engineering software to locate the ObServer Setup object. Assign the IsoRack v20 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 4 – Configure IsoRack OSM

The COM port, device label and alarm destination are configured using objects. Use object engineering software to view and modify the module objects within the OSM.
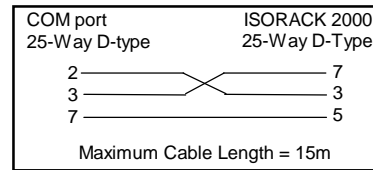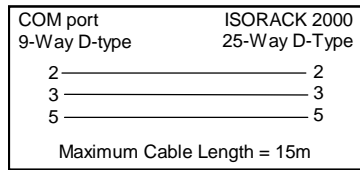
Step 5 – Access Objects within the ISORACK 2000 System

Values from the ISORACK 2000 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 and the ISORACK 2000 is as follows:

```
COM port              ISORACK 2000
9-Way D-type          25-Way D-Type

2 ————————————————— 2
3 ————————————————— 3
5 ————————————————— 5

Maximum Cable Length = 15m
```

```
COM port              ISORACK 2000
25-Way D-type         25-Way D-Type

2 ——————————⨯—————— 7
3 ——————————⨯—————— 3
7 ——————————————— 5

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*	IsoRack 2000 System connected to channel *c*	-	*[IsoRack v10]* [2]
M*c*	IsoRack Module connected to channel *c*	-	*[OSM v20\IsoRack 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.