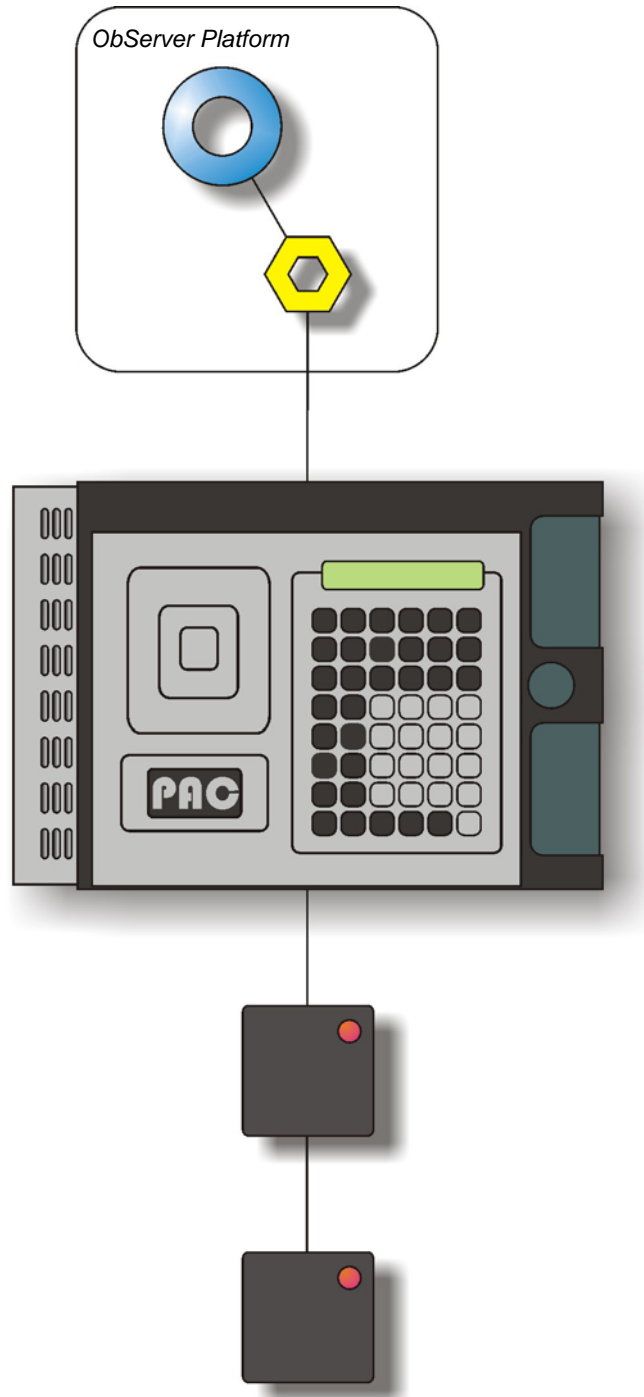# Product Engineering Guide

OSM v20 Pac2100 v10

Introduction

The Pac2100 OSM links PAC International Access Control system to the ObServer. Multiple PAC door controllers can be networked together, and accessed via a PAC2100 door controller or CNC.

Engineering

Step 1 – Install OSM

The Pac2100 OSM is installed automatically with all ObSys editions. Refer to the 'ObSys CD sleeve' for details on how to install ObSys.

Step 2 – Configure PAC International Access Control System

When connecting via a PAC2100, this should be operated as a 'master'

Step 3 – Connect COM Port to PAC International Access Control System

Using cable, connect the PAC International Access Control system to a COM port of the PC. Refer to the section 'Cable' below for details of the cable.

Step 4 – Plug in Pac2100 OSM to ObServer

Use object engineering software to locate the ObServer Setup object. Assign the Pac2100 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 Pac2100 OSM

The COM port, device label and alarm type are configured using objects. Use object engineering software to view and modify the module objects within the OSM.
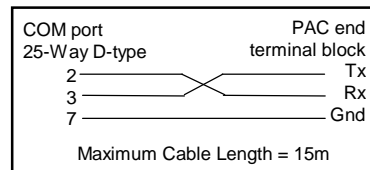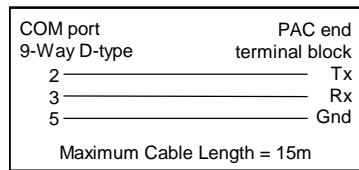
Step 6 – Access Objects within the PAC International Access Control System

Values from the PAC International Access Control 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 terminal block of the PAC International Access Control system is as follows:

```
┌─────────────────────────────────┐      ┌─────────────────────────────────┐
│ COM port              PAC end    │      │ COM port              PAC end    │
│ 9-Way D-type    terminal block   │      │ 25-Way D-type   terminal block   │
│ 2 ──────────────────── Tx        │      │ 2 ──────────┐  ┌───── Tx         │
│ 3 ──────────────────── Rx        │      │ 3 ──────────┘  └───── Rx         │
│ 5 ──────────────────── Gnd       │      │ 7 ──────────────────── Gnd       │
│                                  │      │                                  │
│   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*	Pac2100 System connected to channel *c*	-	*[Pac2100 v10]*
M*c*	Pac2100 Module connected to channel *c*	-	*[OSM v20\Pac2100 v10]*

Notes

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