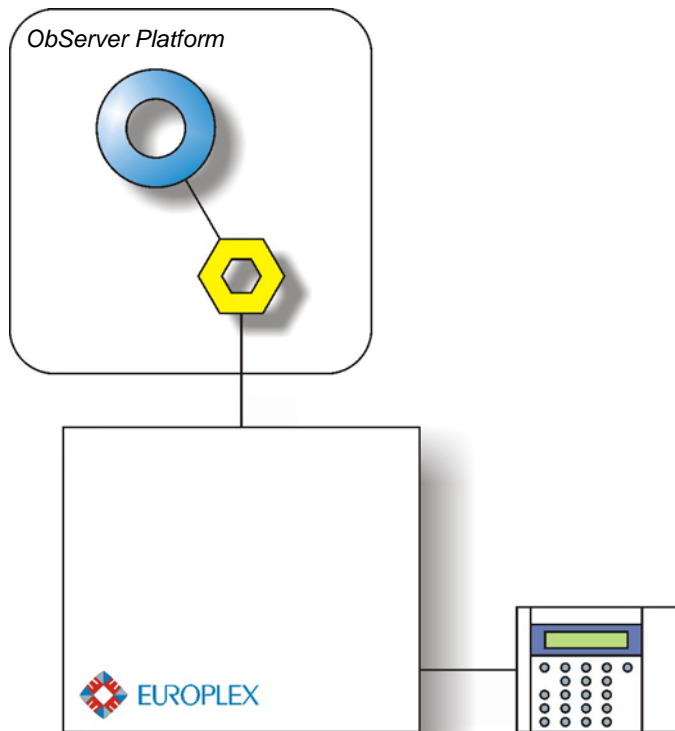# Product Engineering Guide

OSM v20 Europlex v10

Introduction

The Europlex OSM links Europlex Aplex, Midiplex or 3GS intruder system to the ObServer. The OSM connects directly with the RS232 port in the Europlex panel.

Engineering

Step 1 – Install OSM

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

Step 2 – Configure Europlex System

The 3GS Panel's port should be configured with Dial mode 0 (ESCO protocol), Even parity, 8 data bits and 1 stop bit. The baud rate should be set to match the OSM.

Step 3 – Connect COM Port to Europlex System

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

Step 4 – Plug in Europlex OSM to ObServer

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

The COM port and device number are configured using objects. Use object engineering software to view and modify the module objects within the OSM.
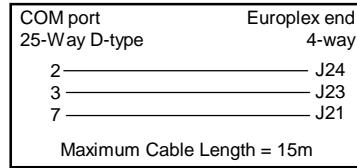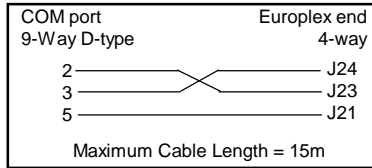
Step 6 – Access Objects within the Europlex System

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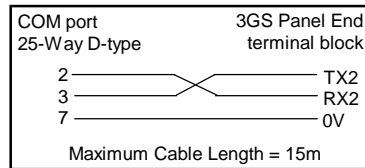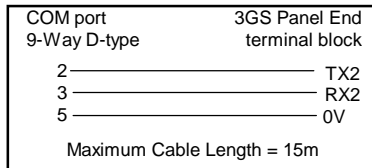
Engineering Reference

Cable Specification

The cable between COM port and the Aplex Panel 4-way terminal block is as follows:

```
COM port                Europlex end
9-Way D-type                   4-way
   2 ─────────────╳─────────── J24
   3 ─────────────╳─────────── J23
   5 ─────────────────────────  J21
       Maximum Cable Length = 15m
```

```
COM port                Europlex end
25-Way D-type                  4-way
   2 ─────────────────────────  J24
   3 ─────────────────────────  J23
   7 ─────────────────────────  J21
       Maximum Cable Length = 15m
```

The cable between COM port the 3GS Panel 3-way terminal block is as follows:

```
COM port              3GS Panel End
9-Way D-type         terminal block
   2 ─────────────────────────  TX2
   3 ─────────────────────────  RX2
   5 ─────────────────────────  0V
       Maximum Cable Length = 15m
```

```
COM port              3GS Panel End
25-Way D-type        terminal block
   2 ─────────────╳─────────── TX2
   3 ─────────────╳─────────── RX2
   7 ─────────────────────────  0V
       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*	Europlex System connected to channel *c*	-	*[Europlex v10]* [2]
M*c*	Europlex Module connected to channel *c*	-	*[OSM v20\ Europlex 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.