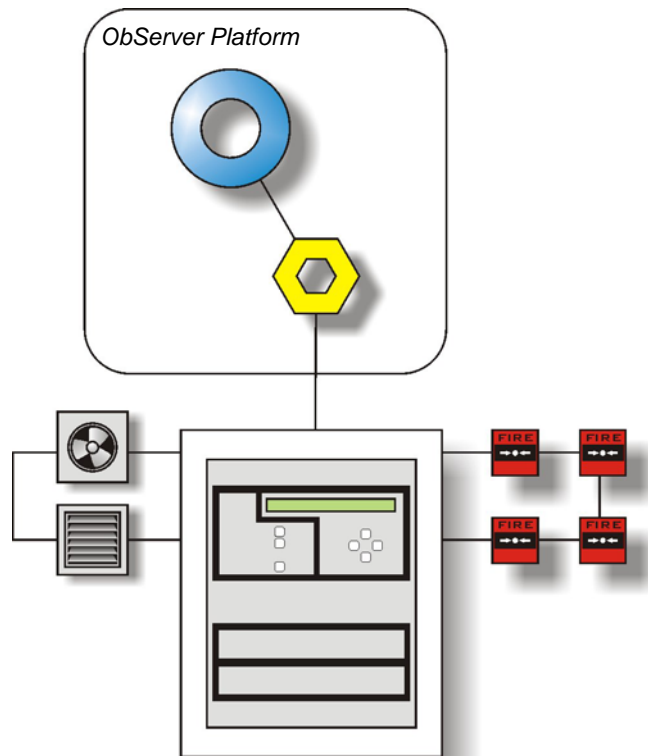# Product Engineering Guide

OSM v20 Microlec v10

Introduction

The Microlec OSM links Microlec SmokeMaster system to the ObServer. Other systems connected to ObServer can request fire damper positions, relay positions, etc.

ObServer Platform

Engineering

Step 1 – Install OSM

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

Step 2 – Configure Microlec SmokeMaster System

It is necessary to have the Microlec North Intf software dated 18/05/98 V3 installed on the Microlec system. Refer to Microlec for this.

Step 3 – Connect COM Port to Microlec SmokeMaster System

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

Step 4 – Plug in Microlec OSM to ObServer

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

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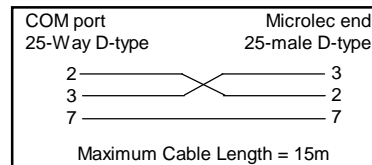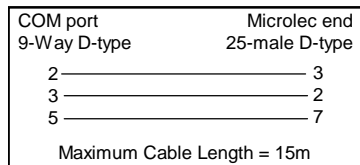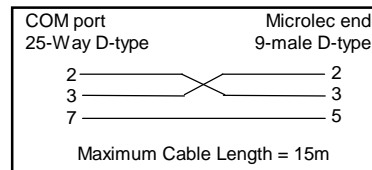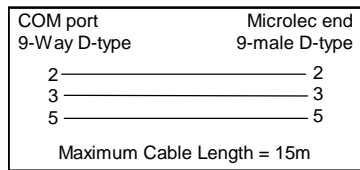
Step 6 – Access Objects within the Microlec SmokeMaster System

Values from the Microlec SmokeMaster 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 Microlec SmokeMaster System is as follows:

```
COM port              Microlec end          COM port              Microlec end
9-Way D-type          9-male D-type          25-Way D-type         9-male D-type

2 ───────────────── 2                      2 ───────────────── 2
3 ───────────────── 3                      3 ──────╳────────── 3
5 ───────────────── 5                      7 ───────────────── 5

    Maximum Cable Length = 15m                 Maximum Cable Length = 15m


COM port              Microlec end          COM port              Microlec end
9-Way D-type          25-male D-type         25-Way D-type         25-male D-type

2 ───────────────── 3                      2 ───────────────── 3
3 ───────────────── 2                      3 ──────╳────────── 2
5 ───────────────── 7                      7 ───────────────── 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*	Microlec System connected to channel *c*	-	*[Microlec v10]* [2]
M*c*	Microlec Module connected to channel *c*	-	*[OSM v20\ Microlec 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.