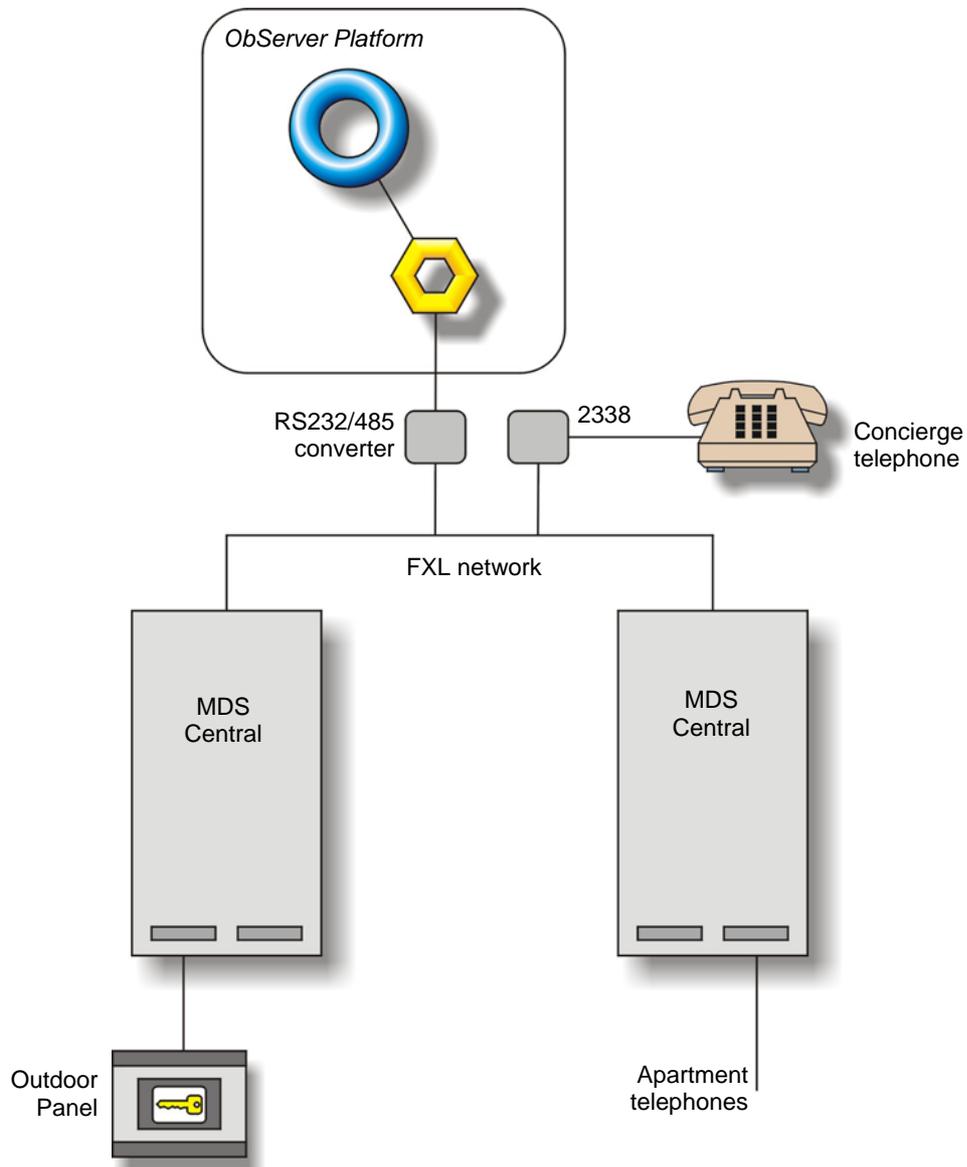# Product Engineering Guide

## OSM v20 FermxMDS v11

### *Introduction*

The FermxMDS OSM links the Fermax MDS system to ObServer. The Fermax MDS system is an audio and video door entry system.

The OSM connects to the FXL data network via an RS232/485 converter, from which several MDS Central units can be accessed. Use the Fermax FXL management module (Ref. 2338) only to connect the concierge telephone.



### *Supported Range*

- Fermax MDS system

# Engineering

### Step 1 – Install OSM

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

### Step 2 – Configure Fermax MDS System

For each of the MDS Centrals, fit an FXL interface module and configure each a unique central address.

### Step 3 – Connect COM Port to Fermax MDS System

Using cable, connect the COM port of the PC via an RS485 converter to the FXL data network. Refer to the section '*Cable*' below for details of the cable.

### Step 4 – Plug in FermxMDS OSM to ObServer

Use object-engineering software, such as ObView, to locate the ObServer Setup object. Assign the FermxMDS OSM to an available channel. Refer to the '*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 FermxMDS OSM

The COM port, local central address and device label are configured using objects. Use object-engineering software, such as ObView, to view and modify the objects within the OSM.
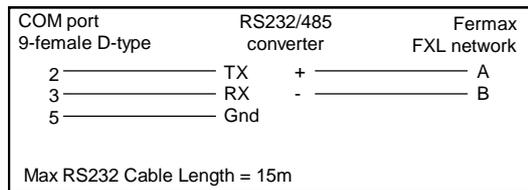
### Step 6 – Access Objects within the Fermax MDS System

Values from the Fermax door entry 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 FXL network is as follows:

```
COM port              RS232/485              Fermax
9-female D-type       converter              FXL network

 2 ───────────────── TX       + ───────────────── A
 3 ───────────────── RX       - ───────────────── B
 5 ───────────────── Gnd


 Max RS232 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* | FermxMDS System | - | *[FermxMDS v11]* [2] |
| M*c* | FermxMDS Module | - | *[OSM v20\FermxMDS v11]* |

### 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.

# Notes

### ObSys Licence Units

The FermxMDS OSM uses 150 licence units.

### Revision History

| Version | Build Date | Details |
|---------|-----------|---------|
| 1.0 | 15/9/98 | Released |
| 1.1 | 1/9/03 | Mod: Updated to reflect protocol changes when calling an apartment.<br>Mod: Added object to transfer call between panel and apartment.<br>Mod: Added object to compress, order and delete user database list in central.<br>Mod: Can now read date/time from central. |
| 1.1 | 7/4/04 | Mod: Additional alarm for sensor activation. |