Product Engineering Guide

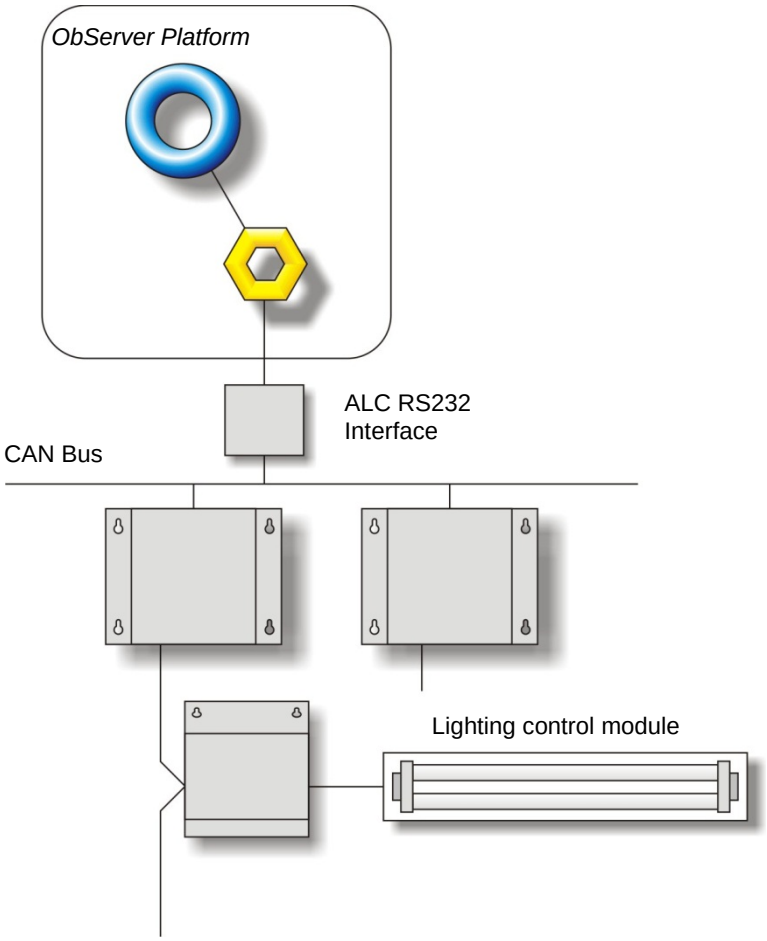
OSM v20 ALCSpectrum v10

Introduction

The ALCSpectrum OSM links an Apex Lighting Controls (ALC) Spectrum lighting system to ObServer

The OSM connects to the ALC RS232 Interface unit, which provides access to 16 virtual outputs and 8 virtual inputs. These virtual points can be mapped to values within the lighting control modules.

The outputs provide a lighting level that may be read. The inputs provide a control state that may be written to.



Supported Range

- Apex Lighting Controls (ALC) Spectrum - RS232 Interface Unit (AxDN42RS232)

Alternative Interfaces

This driver is for CAN bus based networks. If more comprehensive control of the lighting system is required, then the *LtMaster* interface is available.

Engineering

Step 1 – Install OSM

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

Step 2 – Configure ALC System

The ALC system has to be configured prior to communication. The RS232 Interface Unit should be configured with a baud rate of 9600 (ALC9600 mode).

The Interface Unit's virtual inputs and outputs should be configured.

Step 3 – Connect COM Port to ALC System

Using cable, connect the ALC RS232 Interface to the COM port of the PC. Refer to the section 'Cable' below for details of the cable.

Step 4 – Plug in ALCSpectrum OSM to ObServer

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

The device label and input types are configured using objects. Use object engineering software to view and modify the module objects within the OSM.

The eight input types should be configured to match the virtual inputs configured within the RS232 interface.

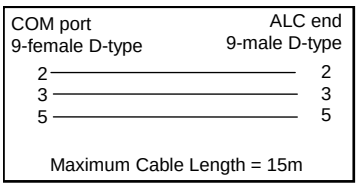
Step 6 – Access Objects within the ALC System

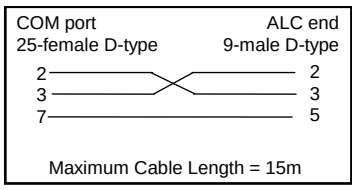
Values from the ALC system are made available as objects from ObServer. Any object software that is connected to the ObServer can access these objects.

Engineering Reference

Cable Specification

The cable between COM port and the ALC RS232 Interface is as follows:





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