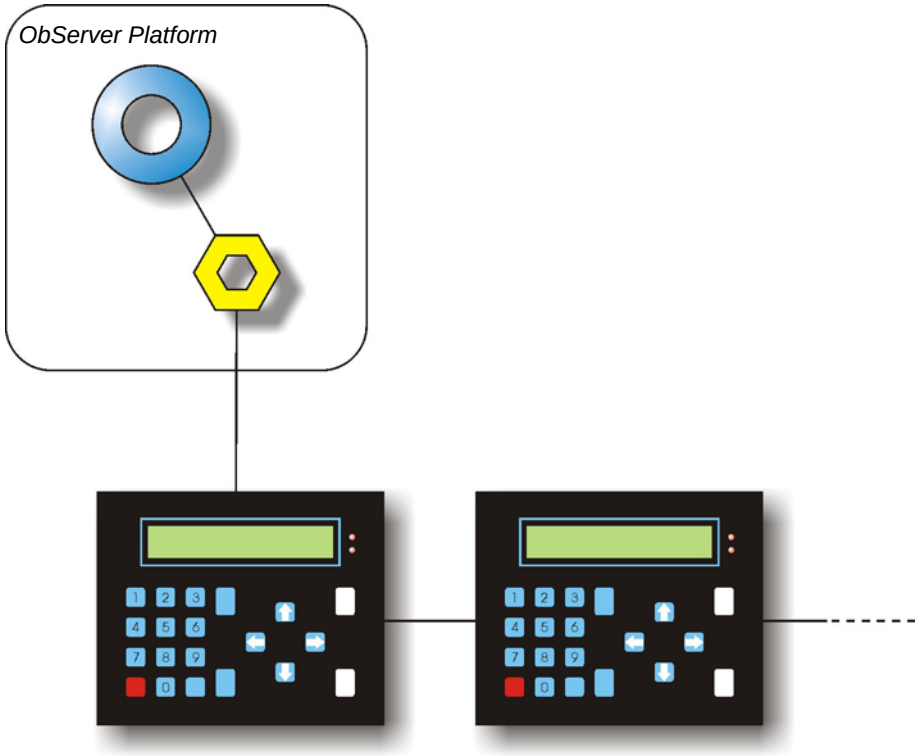
Product Engineering Guide

OSM v20 DBush v11

Introduction

The DBush OSM links Dunham Bush NC25-4 controller to ObServer. Up to 10 controllers can be accessed from a single NC25.



For communications with the NC25-4 to begin, algorithm chip sets of v44.07 or higher should be fitted; these are located on the main board U29 and U30. The GRAPHICS (GRAP) command must also be present in the database chip U28.

Engineering

Step 1 – Install OSM

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

Step 2 – Configure Dunham Bush NC25-4 Controller

The GRAPHICS (GRAP) command must also be present in the database chip U28 for communications with the NC25-4

Step 3 – Connect COM Port to the Dunham Bush NC25-4 Controller

Using cable, connect the Dunham Bush NC25-4 Controller to a COM port of the PC. Refer to the section 'Cable' below for details of the cable.

Step 4 – Plug in Dbush OSM to ObServer

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

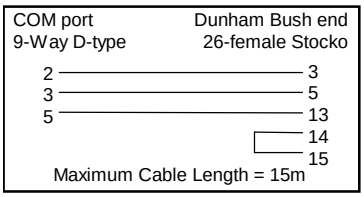
The COM port, baudrate and device number are configured using objects. Use object engineering software to view and modify the module objects within the OSM.

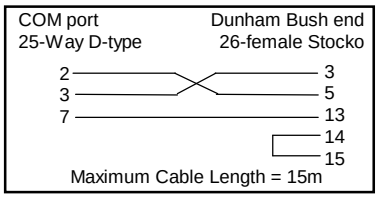
Step 6 – Access Objects within the Dunham Bush NC25-4 Controller

Values from the Dunham Bush NC25-4 Controller system are made available as objects from ObServer. Any object software that is connected to the ObServer can access these objects.

Cable Specification

The cable between COM port and the Dunham Bush 'Stocko' connector labelled 'RS232 J6' 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*	Dbush System connected to channel *c*	-	*[DBush v11]* [2]
M*c*	Dbush Module connected to channel *c*	-	*[OSM v20\DBush 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.