

# Product Engineering Guide

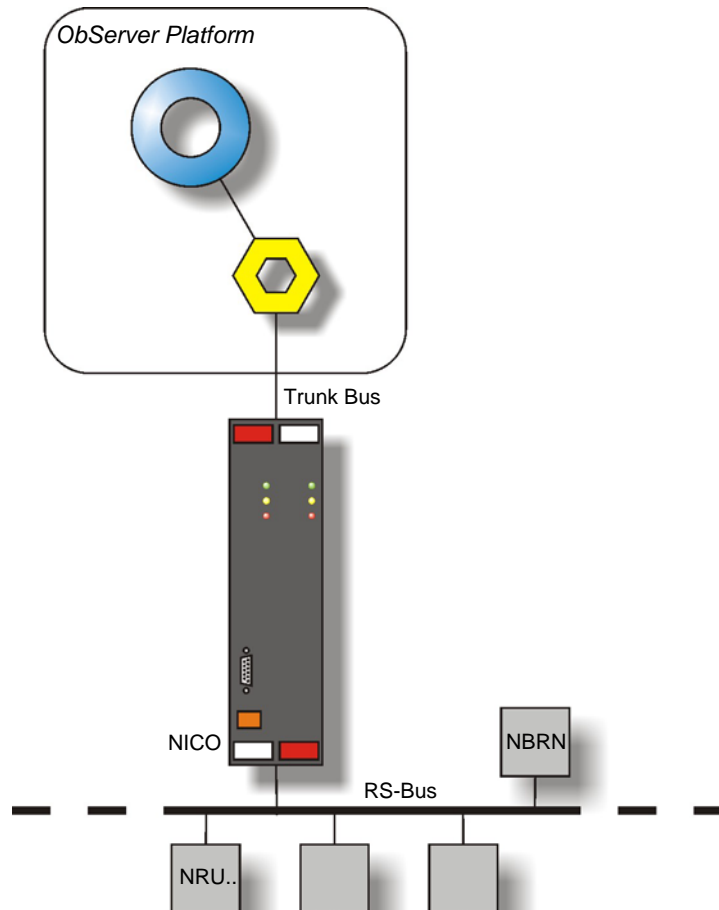
## OSM v20 StfaNICO v12

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### Introduction

The StfaNICO OSM links the Siemens Landis & Staefa Division AS1000 building management system to ObServer, via the NICO product. The NICO allows the data from the klimo integral RS-modules to be accessed.

Up to 900 data points can be selected from the connected RS modules and installed in the NICO. Installed data points are updated on a regular basis by the NICO.



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## **Engineering**

### **Step 1 – Install OSM**

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

### **Step 2 – Configure NICO Module**

Set the Trunk-Bus/COM1 address using the rotary switch to 1, and the RS-Bus address as required. Older NICO modules fitted with a 25-way RS232 connector have a 4-way DIP-switch 'S2' to set the Trunk-Bus parameters. Switches 1 & 2 should be OFF, to select RS232; and switches 3 & 4 should be ON, to select 9600 baud. The NICO status LED should remain off. If the LED flashes red then no info list has been downloaded.

### **Step 3 – Connect COM Port to the NICO**

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

### **Step 4 – Plug in StfaNICO OSM to ObServer**

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

The NICO initialisation and maximum table index are configured using objects. Use object engineering software to view and modify the objects within the OSM.

### **Step 6 – Access Objects within the AS1000 System**

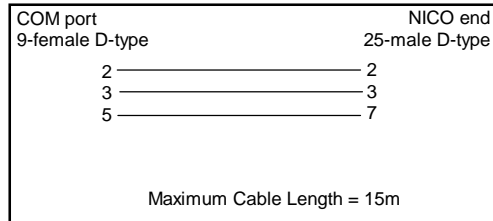
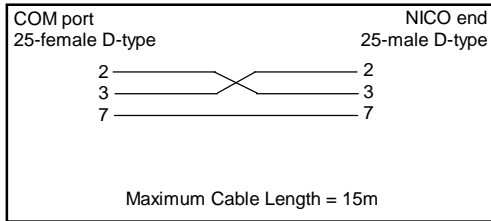
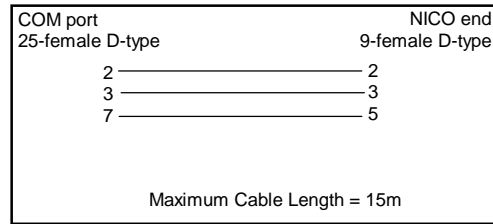
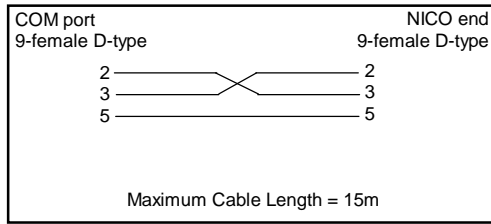
Values from the Staefa AS1000 system are made available as objects from ObServer. Any object software that is connected to ObServer can access these objects.

The TxC1 LED on the NICO will flash when a message is transmitted from the NICO to ObServer.

# Engineering Reference

## Cable Specification

Connect the NICO 9-way D-type connector COM1 RS232, or the 25-way D-type connector with older versions of the NICO, to the COM port:



## Objects

When the OSM is loaded the following objects are created within ObServer, use object software to access these objects.

Object <sup>[1]</sup>	Label	R/W	Type
Sc	AS1000 System connected to channel c	-	[StfaNICO v12] <sup>[2]</sup>
Mc	StfaNICO Module connected to channel c	-	[OSM v20\StfaNICO v12]

## 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. Before scanning it is recommended the module object 'Maximum Table Index' is modified.

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## Notes

### Revision History

Version	Build Date	Details
29/7/99	1.1	Removed driver object DSC Added Initialisation for NIDES, activated using driver object NI Reworked Auto/Man functionality, affecting Table 2 digital outputs and Table 8 Analogue outputs.
03/08/99	1.1	Re-enabled driver object DSC for backward compatibility. Tuned NIDES initialisation.
01/12/99	1.1	Changed to Hardware type to allow Half Duplex
08/12/99	1.1	Changed Object handling to process Req when blocked. This improves bar comms.
07/2/00	1.1	Fix: Problem decoding IEEE float values.
15/8/00	1.2	Modification: Change low level comms to send NICO status request every 30 secs for NICO auto-baud. Driver baud rate fixed at 9600. Modification: No object requests sent until NICO in management state. Modification: Improved ObSys scanning.
02/08/01	1.2	Modification: When DSC is enabled. Writing value to UAO or PGA objects set point to manual. Writing 'A' sets back to automatic.
25/11/02	1.2	Document update: Cable specification for 25-9 way corrected.