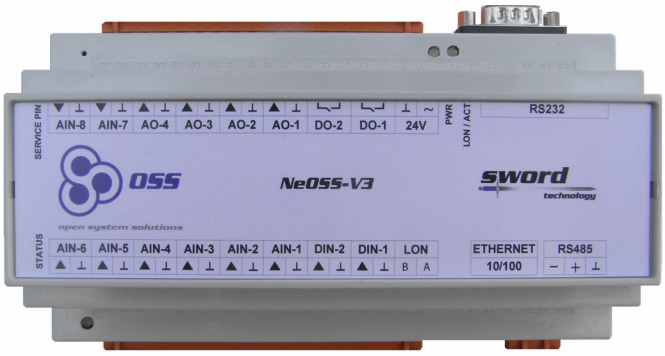
Excalibur™ Series
LON®/IP/Modbus®/TREND® Control & SCADA

NeOSS-V3®

- Freely Programmable
- Universal Inputs
- Analogue Outputs
- Digital I/O
- Pulse Counters
- Graphics Server
- Data Logger
- Schedulers
- Optimisers
- Alarm Handler
- 4096 NV's



MAKING OPEN SYSTEMS WORK FOR YOU
Bringing together the power of the Internet and LON technology makes for ease of use and unrivalled capability for now and the future. Allowing easy open integration between all products in the ***Excalibur*** series and products from other manufactures you can be sure of creating a system that suits the job at the right cost. ***NeOSS-V3*** is a freely programmable controller complete with an embedded OSS web server that delivers complete dynamic supervisory graphics to a web browser, thus allowing data points to be viewed and modified

Applications

- Retail Unit Control & Monitoring
- Main Site Control & Monitoring
- Alarm Handling
- Data Logging
- Refrigeration Control & Monitoring
- Lighting Control
- Multiple Fan Coil/VAV Control
- Graphical SCADA Interface

HIGH POWER TECHNOLOGY
As a complete embedded supervisor and programmable controller, ***NeOSS-V3*** delivers a wider range of functionality than any other product of its type. For example: Dynamic graphics, Logging, Time scheduling, Time server, Alarm management and re-transmission, Security control, Remote configuration of graphics, user application and firmware. PID Loops Digital I/O, analogue I/O and a full feature list of other function modules along with large memory, 4096 NV's and various protocol options make the ***NeOSS-V3*** unrivalled.

COST EFFICIENT
The ***NeOSS-V3*** removes the need for a dedicated supervisor PC, operating system and network interface card therefore considerably reducing the costs normally involved with control and monitoring. This makes this solution ideal for the smaller sites such as retail chains and schools as well as for the largest buildings. When used for energy management, carbon footprint and energy savings can easily be realised.

THE PERFECT UPGRADE ROUTE
Capable of communicating with LON, Trend, Modbus, SNMP and other networks at the same time provides an easy upgrade path to an open system or to expand an existing site using otherwise unavailable technologies. The ***NeOSS-V3*** can also operate stand alone without a LON or other network if required.

FLEXIBLE I/O

- `8 UI: 0-10V,0-20mA,Thermistor,Dry Contact`
- `4 AO: 0-10V`
- `2 DI: Dry Contact, TTL, Pulse Counter`
- `2 DO: 1A 24VAC Relay Contact`

ENGINEERING
Configuration of both user application and graphics could not be easier. Broadsword is the ***FREE*** engineering tool that allows the creation of strategies using drag and drop modules and wiring techniques. The same applies to functional profile usage and creation, with full access to the LonMark® resource catalogue, standard and third party functional profiles. There is no need to program in 'C' or other complex languages. The renowned OSS schematic editor is built-in for the creation of dynamic graphics. All projects can be uploaded remotely.

LOGGING
Logs can be viewed, stopped and started via the browser as well as automatically emailed out on a scheduled basis.

TIME SCHEDULES
Schedules have up to 4 on/off periods per day and special days can be created to override normal schedule operation.

ALARM MANAGEMENT
Alarms are logged and can be emailed, sent to a copy of ***OSS-NG*** or sent as SMS messages.

sword® technology

LONMARK® U.K.

Specifications

CPU:
80 MHz 32 Bit ***sword technology***

MEMORY:
8 MB RAM
(User Application Space)
2 GB Non volatile data storage
(Graphics, Logs, Alarms)
4096 LON Network Variables

SUPPLY VOLTAGE:
24-36 VDC
24 VAC
2 VA Typical (No outputs on)
6 VA Typical (Relays on, AO driving 500Ω)

CONNECTIVITY:

LON TP78Kbps:	***sword technology***
RS232:	Trend, SMS & Other
RS485:	Modbus, Other
Ethernet:	Graphics, Logs, Alarms
Ethernet:	SNMP, Trend
Ethernet:	Call for BacNet
Ethernet:	Broadsword engineering-tool

I/O:

8 UI:	0-10V, 0-20mA, Thermistor, Resistive, Dry Contact
4 AO:	0-10V
2 DI:	Dry Contact, TTL, Pulse Counter
2 DO:	1A 24V Relay Contact
AtoD:	16 Bit Resolution

PHYSICAL:

Enclosure:	UL94-V1 Grey Plastic
Weight:	0.275 kg
Dimension:	L:157mm W:98mm D:59mm (ex. connectors)
Mount:	TS35 DIN Rail (Len: 155mm)

CONNECTORS:

Power:	2 Part screw terminals
RS232:	DB9 male socket
LON®:	2 Part screw terminals
RS485:	2 Part screw terminals
Ethernet:	RJ45
I/O:	2 Part screw terminals

ENVIRONMENTAL:

Storage:	-20 °C to 70 °C
Operating:	0 °C to 60 °C
Humidity:	0 to 90 %RH non-condensing

VERSION:
Hardware: Issue 3.1
Firmware: v1.53 or greater

Key Features

- Fully programmable
- Dynamic graphics
- Alarm Handling
- Logging
- PID Loops
- Function Modules
- Logic Modules
- Real Time Clock
- Time Scheduling
- Optimisers
- Flexible I/O
- LON, Trend, SNMP, Modbus & Other
- 4096 Network Variables
- User definable interface/XIF
- UNVT's, UCPT's, UFPT's

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