

VIKING 25

Engine Management System

The Regulateurs Europa Viking 25 engine management system is designed to control all diesel engines in propulsion, traction or generating systems and can operate with a number of leading fuel injector systems.

It combines conventional inputs and outputs with CANbus and two configurable communication ports.

The user friendly 'Viking Vision' Window® PC programming package allows control and status parameters to be as graphs, gauges and charts.

'Viking Vision' can be left running for simple monitoring.



VIKING 25 Engine Management System

FEATURES

- Complete engine management system
- Controls actuators or electronic fuel injection
- 2 'RS' ports plus 3 CANbus ports supporting both industry standard and project specific protocols (Modbus, CANOpen, Device Net)
- Easy configuration with 'Viking Vision' Windows® PC software
- Controls diesel, dual fuel and spark ignition engines
- Suitable for power generation, propulsion or traction applications
- Parameters can be edited or displayed on a PC in real time as graphs, gauges and bar charts, for fast service support.

VIKING 25

Engine Management System

SPECIFICATION

Dimensions

PCB - 335mm (L) x 254mm
(W) x 50mm (D)

Weight

3KG (approx.)

Environmental

Temperature, -20 to 70°C operating
ambient.

Humidity

0% to 97%

IP Rating

Enclosure dependent.

Vibration

5-25Hz. @ 1.6mm displacement
25-50Hz 4g when suitably mounted.

Connections

All connections are via plug
connectors with either screw or cage
clamp mechanism, or IDC ribbon
cable connectors.

EMC

Viking 25 complies with the requirements
of EN50081-2 and EN50082-2 when
packaged in a suitable enclosure.

Power Supply

24Vdc nominal (18 to 36Vdc).

Perception Head Inputs

2 off 1500V independently galvanically
isolated. Frequency range - 1Hz - 20KHz.

Digital Inputs

16 off 24V nominal input (18 - 36V), 1500V
independently galvanically isolated. LED
indicators will show the status of each
input.

Digital Outputs

8 off Volt free relay contacts, 2A @ 24Vdc,
24V independently galvanically isolated,
selectable as N/O or N/C. 8 off opto
outputs, 25mA @ 24Vdc, All channels are
1500V independently galvanically isolated.
LED indicators will show the status of each
output.

Analogue Inputs

8 off @ 10bits resolution, 1500V
independently galvanically isolated Input
ranges are selectable as.

- i) 0 - 5V
- ii) 0 - 10V
- iii) + 5V
- iv) + 10V
- v) 4 - 20mA (0 - 20mA)

Analogue Outputs

8 off, 10bit resolution 1500V Independently
galvanically isolated.

Power supply can be generated internally
Output ranges are selected as

- i) 0 - 5V
- ii) 0 - 10V
- iii) 4 - 20mA (0 - 20mA)

Actuator Output

1 off, 0 - 1A. Includes wire break detection.

Communication Interfaces

2 off RS232/485/422 Communication ports,
1500 V independently galvanically isolated.
Termination resistors (120Ω) jumper
selectable.
3 off CANbus 2.0B Active port, 1500V
Independently galvanically isolated.
Termination resistors (120Ω) jumper
selectable.

SYSTEM EXPANSION

The Viking 25 has additional I/O expansion
that gives a further 64 analogue inputs, 64
digital inputs or 64 digital outputs. The I/O
expansion enables the Viking 25 to offer
engine management, control and
monitoring.

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