

Electronics & Software - Alarm Monitoring Systems - Rack 65**CLARINUX RACK 65™ - ALARM MONITORING
SAFETY SYSTEM (AMS)****Rack 65**

The CLARINUX Rack 65™ (AMS) performs alarm, monitoring and supervision functions, parameter display and alarm generation. Using CMR's embedded CLARINUX™ software system, the Rack 65™ displays parameters transmitted over a CAN network results on a 6.5" LCD color screen.

// Description

Processing up to 600 channels per device in analog or binary ON/OFF mode, several parameters may be assigned with 2 natural high or low threshold values and cross reference other channel and alarm conditions.

Each analog channel can be displayed with a graphic indicator such as a vertical or horizontal bar graph, dial type indicator or digital indicator. In addition to monitoring, this system offers a functions for status recording and storage with many extension possibilities.

CLARINUX Rack 65™ has been designed for any marine or harsh environment industrial application. Approved by the main Marine Classification Societies, this unit is used as a local or general monitoring system on-board, and subscribes to unmanned class requirements.

Electronics & Software - Alarm Monitoring Systems - Rack 65

// Specifications

• Operating Temperature Range	.....	0 °C/55° C + 70 °C during 24 hours
• Electrical Connection	.....	Rear Panel Area: <ul style="list-style-type: none"> • 24VDC Power Supply • CAN 1 Network • CAN 2 Network • 4 Outputs Relay • For optional outputs, 4 optocouplers • COM2
		Side Panel Area: <ul style="list-style-type: none"> • 2 PS/2 female connectors for keyboard and mouse connection • USB port : Supports any USB2.0 (480Mbps) compliant peripherals
• Number Of Inputs	.....	600 channels
• Number Of Outputs	.....	<ul style="list-style-type: none"> • 4 Outputs Relays • 4 Outputs Optocouplers
• Output Type	.....	<ul style="list-style-type: none"> • Relays • Optocouplers
• Material Of Construction	.....	Aluminium & stainless steel
• Vibration Tolerance	.....	0.7 g, 2 to 100 Hz CIE 60068-26 test Fc
• Weight	.....	2.6 kg
• Length	.....	180 mm
• Width	.....	214 mm
• Other Dimensions	.....	Depth = 100 mm
• Other Features	.....	Screen TFT Lcd color (640x480), 6"5.

// Applications

DEFENSE - ARMY	OIL & GAS - ONSHORE
DEFENSE - NAVY	POWER - POWER PLANT
INDUSTRY & UTILITIES - PROCESS INDUSTRIES	POWER - ENGINES & GENSETS
INDUSTRY & UTILITIES - HAZARDOUS & MACHINERY	TRANSPORTATION - LAND
OIL & GAS - OFFSHORE	TRANSPORTATION - MARINE

// Markets

DEFENSE	POWER
INDUSTRY & UTILITIES	TRANSPORTATION
OIL & GAS	

* Pictures, drawings and technical specifications are non-contractual and may be subject to technical modification



Engineered to Uncompromising Standards. *Yours*

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Electronics & Software - Alarm Monitoring Systems - Rack 121

CLARINUX RACK 121™ - ALARM MONITORING SAFETY SYSTEM (AMS)

Rack 121



The CLARINUX Rack 121™ (AMS) performs alarm, monitoring and supervision functions, parameter display and alarm generation. Using CMR's embedded CLARINUX™ software system, the Rack 121™ displays parameters transmitted over a CAN network results on a 12" LCD color screen.

// Description

Processing up to 600 channels per device in analog or binary ON/OFF mode, several parameters may be assigned with 2 natural high or low threshold values and cross reference other channel and alarm conditions.

Each analog channel can be displayed with a graphic indicator such as a vertical or horizontal bar graph, dial type indicator or digital indicator. In addition to monitoring, this system offers a functions for status recording and storage with many extension possibilities.

CLARINUX Rack 121™ has been designed for any marine or harsh environment industrial application. Approved by the main Marine Classification Societies, this unit is used as a local or general monitoring system on-board, and subscribes to unmanned class requirements.

Electronics & Software - Alarm Monitoring Systems - Rack 121

// Specifications

• Operating Temperature Range	.....	0°C/55°C + 70 °C during 24 hours
• Electrical Connection	.....	Front Panel Area: <ul style="list-style-type: none"> • 2 PS/2 female connectors for keyboard and mouse connection • USB port : Supports any USB2.0 (480Mbps) compliant peripherals
		Rear Panel Area: <ul style="list-style-type: none"> • 24VDC Power Supply • CAN 1 Network • CAN 2 Network • FoP output 1 to 5 • FoP output 6 to 10 • “ACK” input • “INHIBITION” input • “STOP KLAXON” output contact • “OVER TEMPERATURE” output RELAY • 1 Port USB 2.0 • 1 RS 232 (COM2) • 1 Ethernet network
• Number Of Inputs	.....	600 channels
• Number Of Outputs	.....	<ul style="list-style-type: none"> • 10 Outputs Relays • 30 Outputs Optocouplers
• Output Type	.....	<ul style="list-style-type: none"> • Relays • Optocouplers
• Material Of Construction	.....	Aluminium & stainless steel
• Vibration Tolerance	.....	0.7 g, 2 to 100 Hz CIE 60068-26 test Fc
• Weight	.....	5.2 kg
• Length	.....	318 mm
• Width	.....	377 mm
• Other Dimensions	.....	Depth = 70 mm
• Other Features	.....	Screen TFT LCD color (800x600), 12"

// Applications

DEFENSE - ARMY	OIL & GAS - ONSHORE
DEFENSE - NAVY	POWER - POWER PLANT
INDUSTRY & UTILITIES - PROCESS INDUSTRIES	POWER - ENGINES & GENSETS
INDUSTRY & UTILITIES - HAZARDOUS & MACHINERY	TRANSPORTATION - LAND
OIL & GAS - OFFSHORE	TRANSPORTATION - MARINE

// Markets

DEFENSE	POWER
INDUSTRY & UTILITIES	TRANSPORTATION
OIL & GAS	

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Electronics & Software - Alarm Monitoring Systems - SIMS

CLARINUX SIMS™ - SMART INNOVATIVE MONITORING SYSTEM (AMS)

SIMS

CLARINUX SIMS™ (Smart Innovative Monitoring System) is a touchscreen AMS system designed for engine monitoring in marine and industrial environments. Easy to configure, SIMS™ has a modular configuration to acquire any analog or binary engine parameter from either an acquisition unit or directly from the engine ECU. All data acquisition can be user defined in terms of alarm triggering and graphical representation.

// Description

Using CMR's embedded CLARINUX™ software system, SIMS™ is a highly modular, flexible and cost-effective system that meets all marine classification standards. Particularly useful for mechanical to electronic engine conversion, it can also be used for any local monitoring application such as tank level and other measured parameters. Thanks to its modular architecture and communication capabilities, SIMS™ can easily be integrated easily into a larger systems using standard communication networks.

SIMS™ is fully compatible with the CLARINUX Rack 65™ and Rack 121™ using the same software protocols and hardware I/O modules for expansion and flexibility.

The main tasks performed by SIMS™ monitoring software are:

- Acquisition and processing of data from CAN bus, CAN open & J1939 protocols, Modbus RTU, Modbus on Ethernet TCP-IP
- Processing & Acknowledgement of alarms
- Display of information via graphical screen pages
- Display of status records (logbook)
- Protection by password for the system configuration
- Configuration upload and download with a USB key

Electronics & Software - Alarm Monitoring Systems - SIMS

// Specifications

• Operating Temperature Range	.....	0°C/+70° C
• Electrical Connection	.....	Rear Panel Area: <ul style="list-style-type: none"> • 2 x CAN interfaces (CAN open, SAE J1939) • 2 x CAN interfaces (CAN open, SAE J1939) • 1 x RS485 (Modbus RTU) • 1 x Ethernet (Modbus TCP/IP) • 1 x USB
• Number Of Inputs	.....	64 up to 96
• Analog Inputs	.....	0-64
• Binary Inputs	.....	0 96
• Number Of Outputs	.....	4 output relays
• Output Type	.....	Relays
• Mechanical Connection Thread Form	.....	DIN RAIL
• Accuracy	.....	+/- 1 %
• Response Time	.....	< 1 sec
• Material Of Construction	.....	Aluminium & white Zinc-plated sheet
• Vibration Tolerance	.....	4g, 0 to 100 Hz
• Weight	.....	4 kg
• Length	.....	<ul style="list-style-type: none"> • Base block : L=212 mm • 12 modules acquisition block : L=402 mm • 4 modules acquisition block : L=167
• Width	.....	102 mm
• Other Dimensions	.....	Depth = 90 mm
• Other Features	.....	<ul style="list-style-type: none"> • Power Consumption Max : 2 A at 24Vcc • 5.7" full VGA LCD touch screen, LED backlight • HMI module Dimension 176x130x56 mm • Insulation fault detection • Analog signal conditioning: TcK, PT10

// Applications

DEFENSE - ARMY	OIL & GAS - ONSHORE
DEFENSE - NAVY	POWER - POWER PLANT
INDUSTRY & UTILITIES - PROCESS INDUSTRIES	POWER - ENGINES & GENSETS
INDUSTRY & UTILITIES - HAZARDOUS & MACHINERY	TRANSPORTATION - LAND
OIL & GAS - OFFSHORE	TRANSPORTATION - MARINE

// Markets

DEFENSE	POWER
INDUSTRY & UTILITIES	TRANSPORTATION
OIL & GAS	

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CUSTOM CONTROL & MONITORING SOLUTIONS (AMS)

Custom Monitoring Solutions



Your requirement for reliable, high quality and best-cost control and monitoring solutions is understood. We specialize in the custom development of equipment to meet these requirements. CMR engineers are skilled in delivering timely solutions for harsh environments.

// Description

Your designs may need to meet specific industrial standards.

We have years of experience in gaining product approval such as CE, CSA, IEC, NEMA, ATEX, ITAR or UL IEC, NEMA, ATEX, ITAR or UL and marine classification standards including Lloyd's Register (LRS), Det Norske Veritas (DNV), Nippon Kaiji Kyokai (NKK), Bureau Veritas(BV), Korean Register (KRS), China Corporation Register of Ships (CRS), Registro Italiano Navale (RINA), Russian Register (RRS), and the American Bureau of Shipping (ABS).

Working independently or to your design and build schedule, prototypes can be developed in a local application center and transferred for production to a best-cost CMR manufacturing location.

// Applications

DEFENSE - ARMY

DEFENSE - NAVY

INDUSTRY & UTILITIES - PROCESS INDUSTRIES

INDUSTRY & UTILITIES - HAZARDOUS & MACHINERY

OIL & GAS - OFFSHORE

OIL & GAS - ONSHORE

POWER - POWER PLANT

POWER - ENGINES & GENSETS

TRANSPORTATION - LAND

TRANSPORTATION - MARINE

Electronics & Software - Alarm Monitoring Systems - Custom Monitoring Solutions

// Markets

DEFENSE

INDUSTRY & UTILITIES

OIL & GAS

POWER

TRANSPORTATION

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Electronics & Software - Alarm Monitoring Systems - ESM

ENGINE SAFETY MODULE (ESM™)

ESM



Fully marine classified, the ESM™ engine safety module is designed to meet the requirements of OEM manufacturers or end users. The ESM™ is incorporated into modular CMR alarm, supervision and monitoring solutions, particularly for engine and genset Local Operating Panels (LOPs).

// Description

Available in different variants to suit individual need, the safety module monitors over-speed and mandatory channels such as low lube oil pressure and high coolant temperature monitoring to be able to shut down the engine to prevent damage occurring.

// Specifications

• Operating Temperature Range	.....	0°C/+85°C
• Electrical Connection	.....	Terminal block
• Number Of Inputs	.....	5
• Analog Inputs	.....	1
• Binary Inputs	.....	4
• Number Of Outputs	.....	2 plus system alarm
• Output Type	.....	Relays
• Vibration Tolerance	.....	Compliant with IEC 60068- /Test Fc
• Weight	.....	0.450 kg
• Length	.....	118 mm
• Width	.....	201mm
• Other Dimensions	.....	Depth = 41 mm
• Other Features	.....	Power supply 24 Vdc

Electronics & Software - Alarm Monitoring Systems - ESM

// Applications

DEFENSE - ARMY	OIL & GAS - ONSHORE
DEFENSE - NAVY	POWER - POWER PLANT
INDUSTRY & UTILITIES - PROCESS INDUSTRIES	POWER - ENGINES & GENSETS
INDUSTRY & UTILITIES - HAZARDOUS & MACHINERY	TRANSPORTATION - MARINE
OIL & GAS - OFFSHORE	

// Markets

DEFENSE	POWER
INDUSTRY & UTILITIES	TRANSPORTATION
OIL & GAS	

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Electronics & Software - Alarm Monitoring Systems - LDU

LOCAL DISPLAY UNIT (LDU™)

LDU

The CMR LDU™ Local Display Unit has been developed to perform two main functions: alarm reporting and responsibility transfer. These features are mandatory to operate in Unattended Machinery Spaces (UMS) for marine environments.

// Description

The Local Display Unit is an electronic unit intended to display parameters for unattended marine applications in the machine room to display alarm information and notify a request for responsibility transfer.

The LDU™ communicates with the supervision software through an RS485/RS422 type network architecture using the MODBUS RTU communication protocol.

The communication interface can be configured in RS232 to perform a point-to-point connection and is mechanically designed with a small form factor to take up minimum space in a bulkhead or electrical cabinet housing.

In normal operation, alarms are grouped to be sent in a compact form to the various facilities (such as mess room, meeting room, cabins) and especially for the on-duty staff cabin

Optimized to operate with the CLARINUX™ alarm monitoring and supervision software, it is also easily possible to interface the LDU™ with other alarm monitoring systems.

Electronics & Software - Alarm Monitoring Systems - LDU

// Specifications

• Operating Temperature Range	0°C/+85°C
• Electrical Connection	Rear Panel Area: <ul style="list-style-type: none"> • 24VDC Power Supply • RS485/RS422 configurable • Output Relay
• Output Type	Relay
• Material Of Construction	Aluminium & stainless steel
• Vibration Tolerance	4g, 5 to 100 Hz CIE 60068-26 test Fc
• Weight	0.9 kg
• Length	130 mm
• Width	200 mm
• Other Dimensions	Depth = 39 mm
• Insulation	Galvanic Insulation
• Other Features	The unit displays 4 lines of 20 characters. The displayed characters are of ASCII standard type (from 0x20 to 0x7F)

// Applications

DEFENSE - ARMY	POWER - ENGINES & GENSETS
DEFENSE - NAVY	TRANSPORTATION - MARINE

// Markets

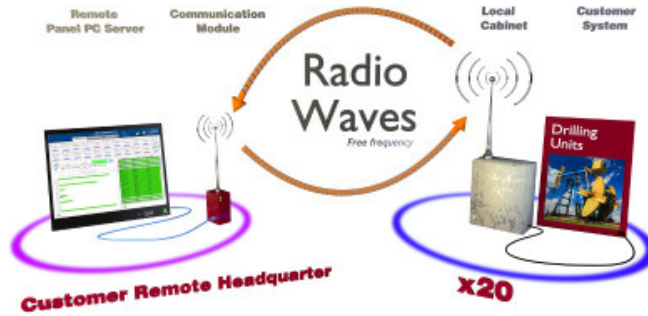
DEFENSE	TRANSPORTATION
POWER	

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REMOTE MONITORING SYSTEM (RMS)

Remote Monitoring



CMR offers a complete remote monitoring and supervision solution for field based prime movers and reciprocating machinery, with particular experience in onshore drilling wells. This enables accurate and reliable data capture which improves system interconnectivity and intervention while reducing expensive and time consuming travel to remote sites.

// Description

CMR's remote monitoring system enables users to manage, analyze and monitor capital installations like drilling units from off-site workstations or smartphones.

The remote monitoring system coordinates all necessary functions for overseeing the autonomous operation of equipment, such as oil well drilling heads, along with the associated electronic components and a host of additional functions which can be adapted for other processes or applications.

A touch screen enables the user to acknowledge and monitor both digital and analogue signals and alarms, record values and status changes, while an integral communications management module provides radio polling monitoring with the option for remote control and maintenance if required.

The system also features integrated smart antennas for radio communication transmission using free frequency broadband, used for channel acquisition from supervisory control and data acquisition (SCADA) under standard Modbus serial and TCP/IP communications protocols.

// Applications

DEFENSE - ARMY

DEFENSE - NAVY

INDUSTRY & UTILITIES - PROCESS INDUSTRIES

INDUSTRY & UTILITIES - HAZARDOUS & MACHINERY

OIL & GAS - OFFSHORE

OIL & GAS - ONSHORE

POWER - POWER PLANT

POWER - ENGINES & GENSETS

TRANSPORTATION - LAND

TRANSPORTATION - MARINE

Electronics & Software - Alarm Monitoring Systems - Remote Monitoring

// Markets

DEFENSE

INDUSTRY & UTILITIES

OIL & GAS

POWER

TRANSPORTATION

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Electronics & Software - Alarm Monitoring Systems - S127**S127™ INDUSTRIAL ENGINE EXHAUST GAS TEMPERATURE MANUAL SCANNER****S127**

The S127™ unit is a compact manual scanner unit with a micro-controller for industrial engine exhaust gas "K" type thermocouples and dual displays. One LCD displays temperature values in °C and one alphanumeric LCD displays the selected the scanned channel.

// Description

The S127™ unit's microcontroller capability is used for diesel/gas engine and industrial applications to display K type thermocouple and exhaust gas temperature information.

Configuration can be adapted to user needs using the portable independent micro-terminal. For diesel applications, channels are divided into 3 groups: cylinders (max 20), turbo blower inlets (max 8) and turbo blower outlets (max 4).

// Specifications

• Electrical Connection	.....	Power supply 24 V screw terminals
• Number Of Inputs	.....	32 channels
• Material Of Construction	.....	Moulded thermoplastic DIN 43700 format
• Weight	.....	0.3 Kg
• Length	.....	96mm
• Width	.....	96mm
• Other Dimensions	.....	Depth = 55 mm
• Other Features	.....	IP61 rated

Electronics & Software - Alarm Monitoring Systems - S127

// Applications

DEFENSE - ARMY	OIL & GAS - ONSHORE
DEFENSE - NAVY	POWER - POWER PLANT
INDUSTRY & UTILITIES - PROCESS INDUSTRIES	POWER - ENGINES & GENSETS
INDUSTRY & UTILITIES - HAZARDOUS & MACHINERY	TRANSPORTATION - LAND
OIL & GAS - OFFSHORE	TRANSPORTATION - MARINE

// Markets

DEFENSE	POWER
INDUSTRY & UTILITIES	TRANSPORTATION
OIL & GAS	

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Electronics & Software - Alarm Monitoring Systems - S128**S128™ INDUSTRIAL ENGINE EXHAUST GAS TEMPERATURE MONITORING UNIT****S128**

The S128™ unit offers stand-alone multi-channel monitoring and display of exhaust gas temperatures in a small form factor on a multi-lingual front plate. This scanning unit is designed to be mounted onto industrial engines and benefit from CMR's experience in harsh environments.

// Description

S128™ is a compact exhaust temperature monitoring unit for industrial diesel and gas engines, based on microprocessor control, complying with the main marine classification society requirements.

Exhaust gas temperature analysis is the simplest way to perform condition monitoring, enabling scheduling of maintenance programs to support avoidance of serious damage while maintaining optimum engine performance.

The unit monitors for engine faults, deviation faults, low temperature, high temperature, sensor failure, scanning failure and cold junction probe compensation.

Electronics & Software - Alarm Monitoring Systems - S128

// Specifications

• Operating Temperature Range	.....	+60°C
• Electrical Connection	.....	Rear Panel Area: <ul style="list-style-type: none"> • 24VDC Power Supply • "INHIBITION" inputs low cylinder, low turbo, deviation/average • RS232 C to printer • 2 x RS 485 to network • Keyboard
• Number Of Inputs	.....	32 Channels
• Accuracy	.....	+/- 1%
• Material Of Construction	.....	Metallic and plastic
• Length	.....	192mm
• Width	.....	96mm
• Other Dimensions	.....	Depth=116mm
• Other Features	.....	<ul style="list-style-type: none"> • 620 mA power consumption • Capacity: 20 cylinder channels, 8 turbo channels, 4 turbo outlet channels. • Display: Alphanumerical digital comments • Keyboard: User friendly front plate keyboard incl

// Applications

DEFENSE - ARMY	OIL & GAS - ONSHORE
DEFENSE - NAVY	POWER - POWER PLANT
INDUSTRY & UTILITIES - PROCESS INDUSTRIES	POWER - ENGINES & GENSETS
INDUSTRY & UTILITIES - HAZARDOUS & MACHINERY	TRANSPORTATION - LAND
OIL & GAS - OFFSHORE	TRANSPORTATION - MARINE

// Markets

DEFENSE	POWER
INDUSTRY & UTILITIES	TRANSPORTATION
OIL & GAS	

* Pictures, drawings and technical specifications are non-contractual and may be subject to technical modification

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Electronics & Software - Alarm Monitoring Systems - S129

S129™ INDUSTRIAL ENGINE ANALOG PARAMETER MONITORING UNIT

S129

The S129™ unit offers stand-alone multi-channel monitoring of analog engine temperature and pressure inputs on a multi-lingual front plate. This scanning unit is designed to be mounted onto industrial engines and benefits from CMR's experience in harsh environments.

// Description

S129™ is a totally configurable compact monitoring unit with the capacity to scan 32 analog input channels.

Important engine characteristics such as main bearing temperature, water temperature or pressure and lube oil temperature or pressure are continuously monitored. The resulting data can be used to construct effective preventative maintenance programs.

The unit monitors for engine faults, deviation faults, low temperature, sensor failure, scanning failure and cold junction probe compensation.

Electronics & Software - Alarm Monitoring Systems - S129

// Specifications

• Operating Temperature Range	.....	+60°C
• Electrical Connection	.....	Rear Panel Area: <ul style="list-style-type: none"> • 24VDC Power Supply • "INHIBITION" inputs low cylinder, low turbo, deviation/average • RS232 C to printer • 2 x RS 485 to network • Keyboard
• Number Of Inputs	.....	32 Channels
• Accuracy	.....	+/- 1%
• Material Of Construction	.....	Metallic and plastic
• Length	.....	192mm
• Width	.....	96mm
• Other Dimensions	.....	Depth=116mm
• Other Features	.....	<ul style="list-style-type: none"> • 450 mA power consumption • Display: Alphanumerical digital comments • Keyboard: User friendly front plate keyboard including alarm set points • Automatic monitoring: horn relay, deviation, gradien

// Applications

DEFENSE - ARMY	OIL & GAS - ONSHORE
DEFENSE - NAVY	POWER - POWER PLANT
INDUSTRY & UTILITIES - PROCESS INDUSTRIES	POWER - ENGINES & GENSETS
INDUSTRY & UTILITIES - HAZARDOUS & MACHINERY	TRANSPORTATION - LAND
OIL & GAS - OFFSHORE	TRANSPORTATION - MARINE

// Markets

DEFENSE	POWER
INDUSTRY & UTILITIES	TRANSPORTATION
OIL & GAS	

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