

# EVOLUTION V5





#### ROCKSON EVOLUTION V5

#### At a Glance

#### Main Features:

#### Application oriented user interface

- Available on windows & Linux platforms
- Using Java technology
- Visualization based on "scalable vector graphics"
- Auto-adapting to monitors resolution and format
- Capable for "touch" operation
- Multiple language selection
- Online project documentation
- Extensive visualization of historical data / reports
- UMS solution with eXtension Alarm clients and panels

#### Communication methods

- Open network architecture according to IEC standards
- Reliable fieldbus with optimized Modbus protocol
- Network redundancy
- Multiple client multiple process server architecture
- Independent eXtension Alarm system communication
- Remote access via secure communication gateway

#### Robust system components

- Process server, designed for maritime use
- Reduced number of different I/O modules
- Integrated earth fault monitoring
- Workstations with any screen size, resolution and format

#### **Applications:**

#### Alarm & Monitoring

- Functions for UMS operation
- Basic monitoring functions
- Exhaust gas mean value supervision
- Extension alarm system incl. engineer call / alarm
- Historical reports and alarm statistics
- Level gauging, volume calculation, trim correction
- Draught measurement

#### Auxiliary systems control

- Single / standby pump control
- Compressor and fan control
- Sequential restart after black-out
- Valve control
- Automatic functions for :
  - Bilge
  - Ballast transfer & exchange
  - Fuel transfer and filling
- Fuel consumption and performance monitoring
- Process regulation (PID)

#### Fluid management

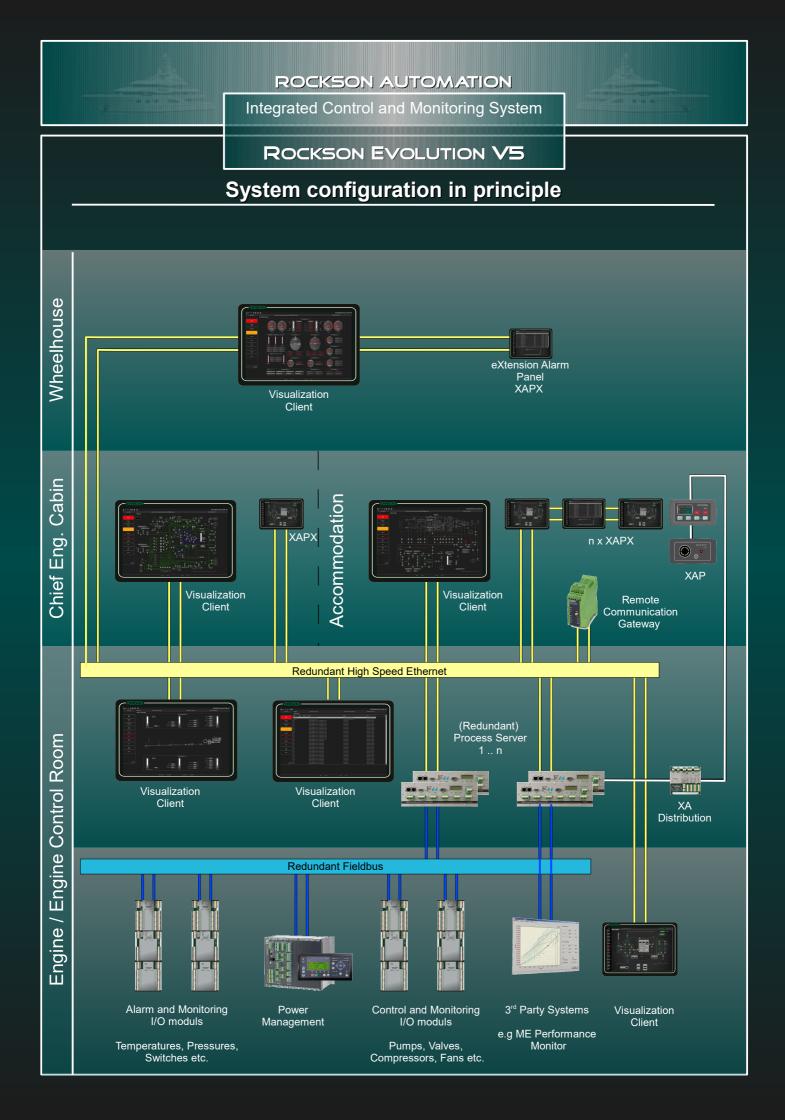
- Ullage reading
- Volume calculation incl. trim/list correction
- 95%/98% tank overfill protection
- Liquid temperature and inert gas pressure reading
- HPU control
- Historical reports
- Auto heeling

#### Power management

- Fully integrated, industrial standard
- Safety system for diesel engine protection
- Generator protection
- Load sharing
- Power management
- Shore power connection

#### Interfaces

- Voyage Data Recorder
- Stability calculator
- Engine control and safety systems
- Master Clock
- Energy management systems
- Performance monitor





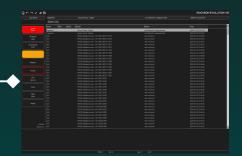
#### ROCKSON EVOLUTION V5

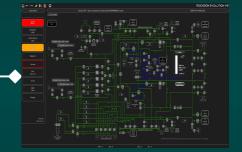
## **Process Visualization Client**

## Standard Lists Measuring Point Indication

- Standardized alarm visualization with
  - List of all active alarms with time stamp
  - List of unacknowledged alarms with time stamp
  - List of suppressed alarm List of disabled alarms

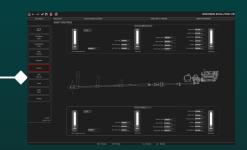
  - Alarm/event indication
  - Trend and historical data
- MP selection with single indication, control functions and parameter facilities





## **Mimics** Customized process graphics

- Customized piping diagrams
- Manufacturer related engine graphics
- Customized realistic gauge panels
- Clear process data indication and control
- Secured access authorization and parameter facilities
- Based on scalable vector graphic technology
- Automatically adapting to different monitor sizes and format
- User definable zoom factor for each workstation
- Flexible background textures
- Selectable navigation themes
- Colour scene switching







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### Process I/O modules / Process Server

#### I/O modules common design characteristics

- 35mm DIN Rail module with rugged stainless steel cover
- Standardized mechanical outline
- Detachable terminal blocks per channel
- Galvanic isolated I/O design
- Redundant power supply Redundant isolated fieldbus RS485 / Modbus RTU
- Environment category GL(C), LR(ENV1,2,3)
- Easy replacing, set address and go



- 32 contact inputs (potential free)
- Designed to allow "common wire" applications
- Pulse counting and frequency measurement
- Determining period length
- Integrated earth-fault monitoring

## MI-8 Multiple Input module, 8 channels

- **Excellent flexibility**
- 8 multi purpose inputs for various signal types :

  - 4 20mA, 0 10V RTD (PT100), T802, Thermocouple
  - Potentiometer
  - Potential free contacts with break and short circuit monitoring
  - NPN and PNP initiators
- Integrated earth fault monitor

## MO-8 Multiple Output module, 8 channels

- Excellent flexibility
- 8 double purpose output sources for different signal types
  Current Output 0-25 mA or 4-20 mA

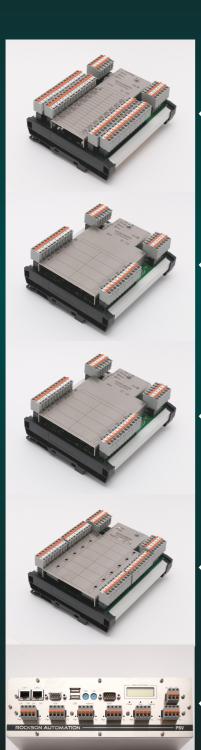
  - Voltage Output 0-10 V

## ROX-12 Relay Output eXtension module, 12 ch.

- 12 single-pole double-throw contacts
- Heavy-duty contacts
- Large safety margin

## **PSV** Process Server

- 35mm DIN Rail module with rugged stainless steel housing
- Fanless design
- Embedded Linux operating system
- Status indication by LED's and text display



## ROCKSON AUTOMATION

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