The new SAM Electronics MCS Platinum series is dedicated to improving ship operations via increased safety and reliability. MCS Platinum builds upon decades of design and engineering expertise in the realms of ship alarm and control systems. The result is the safest and most reliable alarm and control system available, with unprecedented levels of user-friendliness benefiting experienced and novice crew members alike.

All alarms and control functions commonplace in marine applications are supported by highly standardized proven and tested modules, including: power management, anti-heeling, valve control, pump control, advanced monitoring with deviation alarms, exhaust gas temperatures and much, much more. Continuous operations are guaranteed with extensive online diagnostics, support for onboard crew maintenance and remote diagnosis. The unique user friendly ergonomic design reduces the mental load for operators, decreases risk of alarm misinterpretations and minimises necessary system handling.

**User Centred Design**

With vast experience since the 1950’s of developing ship automation and control systems, SAM Electronics has partnered with leading international research institutes to offer the most innovative, user-friendly and comprehensive family of navigation and automation technology. The HMI is designed around the same operating principles commonly found in well-known software programs, thus improving operating system familiarization speed to levels never seen before.

**Features**

- High resolution graphics and modern software design
- Wide selection of high resolution displays
- Operator panels for console/bulkhead mounting
- Field station for process IO’s in a variety of sizes
- Process IO’s and controllers integrable into switchboards, bridge consoles etc.
- Alarm/log/event printer (dot-matrix)
- Graphical printer for reports/graphs trending
- Type approved by major class societies within IACS
- Duty alarm system, engineer call system
- Bridge watch alarm system including navigator fitness check according to MSC.128(75)
- Standard interfaces/protocols by RS485/RS422 to all major marine suppliers
- Stand-alone or integrated with other Platinum series products
- Redundant LAN network or fieldbus for long distance

**Options**

- Cargo Monitoring System (CMS)
- Power Management System (PMS)
- Emergency Shut Down system (ESD)
- Remote maintenance function
- Complete integration of:
  - Propulsion Control System (PCS)
  - Engine Governor System (EGS)
  - Ballast Water Management
  - Anti-Heeling System
  - Fire Detection System
  - HVAC System
  - Dedicated ship-specific functions
System Architecture
A redundant LAN network tying together the control and operator systems is at the heart of the MCS Platinum system. The networked system is highly scalable and offers superb flexibility to optimize safety and redundancy as well as cost effectiveness. Whether a small scale alarm system or complete integration of navigation and automation systems, the MCS Platinum will fit perfectly onboard your vessel. All critical components, IO and controllers utilized in the system are the proprietary of SAM Electronics, thus ensuring long-term through-life support and safeguarding your investment.

Software Platform
Platinum series offers solutions far beyond the competition. Common navigation and automation platform software allows the installation of any application to any Platinum series workstation i.e. run ECDIS navigational applications in the ECR or provide MCS functionality to the bridge!

Standard Function Blocks
MCS Platinum provides a vast library of function blocks. With the standard function block, we provide well-proven certified programming code to control respective marine equipments. Our library includes variants of valve controls, generator controls, PID loop controllers and much, much more. Through utilizing highly standardized and well documented components, system quality and reliability together with the best value for money are all guaranteed.

Benefits
- Extremely user friendly
- Easy to install/commission
- Online diagnostics for crew maintenance
- Wide range of standard functions
- Scalable from small stand-alone systems to large integrated systems
- Long lifetime and huge customer base
Technical Data

MCS Outstation (wall mount)

MCS Outstation (wall mount)

MCS Outstation (floor mount)

Operator Panels for duty alarm system

22”/26” TFT console mounted

Printer

HP Computer + Marine kit

Alterations due to technical progress possible. Detailed technical information is available from:

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