



Design and Engineering of Custom Control Systems

Our design and engineering department designs systems and techniques to improve the operation and efficiency of our customers plants, machines and facilities.

Our team of engineers and designers utilise the latest computer aided design, drafting and system development tools. Using either relay based logic for simpler systems or smart relays such as Siemens Logo / Mitsubishi Alpha / Moeller Easy relays, we are able to carry out most modifications or upgrades quickly and in a cost effective manner.

For more complex systems, we are able to supply/engineer Mitsubishi FX Series compact PLC's, Siemens S7-200, Siemens S7-300, Siemens S7-400 or any manufacturer's equipment as per the clients specification.

Design and Engineering Services we offer:-

PLC Controller Supply, Programming, Installation, and Commissioning
Control Panel Design and fabrication.
Small to large network or hardware I/O.
Integrated HMI/SCADA interface programming and commissioning.
New installations, upgrades, retrofit.

Recently designed, installed and commissioned systems include:-

Integrated Monitoring, Alarm and Control Systems
FPSO and FSO Emergency Shutdown Systems
Fire & Gas Logic / Shutdown Systems
Pipe Rupture Pressure Monitoring Systems
Main Deck Deluge Systems
Accommodation Area Sprinkler System Control Systems
Modifications and Upgrades to High Expansion Foam Systems
FPSO / FSO HVAC Control Systems
Fire Damper Control Systems
Oily Water Separator Control Systems
Boiler and A/E Automatic Fuel Oil Change-over Systems
Inert Gas Control Systems
Ship Alarm Monitoring Systems
Power Management Systems



Integrated Monitoring, Alarm and Control Systems for the Marine, Offshore, LNG, Conversions and land-based sectors

PLC's we usually supply and support include:-
ABB, Allen Bradley, Fuji Electric, GE Fanuc, Mitsubishi, Modicon,
Omron, Rockwell, Schneider, Siemens, Telemecanique

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