



A FRESH APPROACH TO  
**DEPOT SAFETY  
& CONTROL**

FirstClass Safety & Control Ltd (FCSC) deliver Industrial Automation Control & Safety Systems and instrument services to customers worldwide in rail, petrochemical, pharmaceuticals, power & utilities, automotive, food and beverage, marine and many other sectors.

FCSC operates from our engineering and manufacturing facility in Essex, UK and international offices for local support.

Maximising on our cross-industry knowledge gives us the expertise to offer innovative, affordable and integrated safety protection and control system solutions for all our customers.

Safety is at the forefront of our business, and we design all our systems to meet the required safety integrity level (SIL) accreditation. We manufacture both hardware based and Programmable Logic Controller (PLC) based systems using integrated intelligent devices which cater for every requirement.

In addition, our professional after-sales customer care team offer 24/7 full service and support reassuring you that your organisation will receive the prompt support they need when they need it.

## Full Project Life Cycle Services Offered

- Concept
- Design
- Engineering
- Manufacturing
- Installation
- Commissioning
- Start-up Support
- Hardware & Software Engineers
- De-Commissioning
- Long Term Plant Maintenance Services
- Fault Trend Reviews
- Feasibility Services

To find out more, contact us on:  
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Tel: +44 (0)1621 743743

## SECTORS



### Rail

Rail depot safety & control should be a process that works seamlessly with operational activities.

FirstClass Safety & Control are committed to make railway depots safer, introducing ground-breaking safety control systems and procedures to protect the depot workforce at the workplace.

We offer 2 solutions for Rail Depot Safety – our Depot Control System (DCS) and our Depot Protection System (DPS). The Depot Control System (DCS) and Depot Protection System (DPS) are integrated safety systems suitable for any depot looking for a new system or to upgrade older systems. The systems draw upon proven off-the-shelf hardware and software both of which come highly recommended within the industry and offer extremely flexible, scalable, and reliable systems.



### Petrochemical

Our engineers have extensive knowledge and experience in this sector, spanning several decades. This makes us one of the very few experts in this field in the UK with the skills and expertise to support and maintain many legacy Petrochemical Safety and Emergency Shutdown Systems. Our range of services offered include:



### Marine

Our main area of operation in this sector is Alarm Monitoring Systems (AMS) for the control and monitoring of engine plants or rooms using Programmable Logic Controllers (PLC's) or Pneumatics.

Our engineers have experience working on several different classes of vessels including Tankers, Royal Fleet Auxiliary (RFA), Diving Support Vessels (DSV), Tugs, Roll on Roll off (RoRo), and Super Yachts.

The FirstClass Safety and Control marine AMS enhances efficiency and operator visualisation for all types of vessel and is able to monitor manned and unmanned applications. The system has the facility to identify and monitor irregularities in marine engines, generators, tanks and additional service systems.

### System Upgrades and retrofits

We provide upgrades for obsolete safety and control systems. Using both PLC and hardware based platforms, our safety systems are capable of achieving SIL 3 Safety Integrity Level.

### Service & Maintenance

We offer 24 hour telephone and on-call support in the North Sea for these systems. In addition we provide annual maintenance visits, fault history monitoring, modification services, spares and many other services.

### Spare Parts

We provide spare obsolete parts on unsupported systems that many OEM's will force the end user to upgrade. We also offer test and repair services on obsolete equipment.

# A FirstClass Depot Protection System

The Next Generation



FirstClass Safety & Control's Depot Protection System (DPS) provides the highest standards of safety for staff working in rail maintenance depots. Designed to provide the safest and most efficient method of controlling depot train movements, critical in today's modern maintenance facilities. An established market leading product, our DPS is now installed in several UK train care depots and at depots worldwide.

The system is certified to meet the hardware safety integrity requirements of SIL2 and is also compliant with all current railway standards. The FirstClass DPS integrates a proven "off-the-shelf" PLC based solution, providing excellent reliability and functionality, which can be configured to the client's precise requirements.

## DPS System features:

- Distributed I/O with a Fault Tolerant PLC Control System to a SIL2 Safety Standard
- Allen Bradley Control / Logix, CompactLogix and Flex I/O Remote Input Output: Reliable, high-quality hardware
- Software is 100% configurable making integration and flexibility options endless.
- Expandable systems which can be remotely managed.
- 3rd party equipment can be easily integrated: RFID / GPS Vehicle Tracking, Site Access Control, Managing Key Equipment, etc.



FirstClass Safety & Control also offer our combined Depot Protection System/Depot Control System which will further eliminate uncertainty by removing interfaces between personnel safety and train movements as our system now fully integrates both systems to provide one fully functional, fully integrated Rail Depot Safety System (RDSS)



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## Features

### Typical DPS Interfaces:

- Interactive log on / off technology – RFID and/or pictorial
- Movement Beacon / sounder control
- OLE Status beacons
- Aspect control for inbound / outbound movements
- Automatic De-Railers for protecting workforce
- Treadle Switches
- Diesel Exhaust Extract Monitoring systems
- WIGWAG signals
- Points Interlocking
- High level gantry access control & protective bladders
- Access control/CCTV security systems
- OLE isolators
- Automatic Bollards
- Electric shunters
- Remote Diagnostics
- SPAD alarms, turntable, cranes, jacks, wheel lathes, pit lighting interlocks
- Historical Event and Alarm Data Logs

## A FirstClass Depot Control System

Flexible-reliable-excellent performance



The FirstClass Safety Depot Control System (DCS) is an innovative depot control solution which assists depot operators by reducing workload and increasing safety and efficiency within the depot or train facility. The operator can set routes within the depot in just a few seconds, increasing efficiency of train movements. This is particularly important in areas where timescales are a key performance indicator. An efficient depot saves costs without any compromise to operational safety.

Our DCS safety system is a cost-effective alternative to the more traditional Locally Operated Points System (LOPS) or depot points control systems. Working with approved signalling contractors and using proven aspects, route indicators, points machines, train detection methods and SIL2 rated PLC hardware/software, we have developed a complete system to suit any depot where safety is key for train movements.

Our combined knowledge and experience have enabled us to develop a system that allows train movements in and around the train facility quicker and easier. This is already the case at many UK train facilities where our systems have been deployed, a single operator is able to control even the most complex depot or train facility, with the confidence that the system is failsafe and user friendly.



The FirstClass Safety Depot Control System has become the system of choice for many of the UK operators. Whatever the facility be it a train depot, maintenance workshop, siding, stabling, port or intermodal terminal, FirstClass Safety & Control has a control solution that provides maximum flexibility, dependability, and cost savings.

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## Features

### Typical DCS Interfaces:

- SCADA with flexible operator design
- Depot protection interlocking
- Points interlocking
- Remote diagnostics
- Route Indicators
- NR Interlocking
- RFID Authorisation for points operation or any other safety critical operations
- 3P Signalling interface
- Historical Event and Alarm Data Logs

## A FirstClass Service

All of the technical capabilities of FirstClass are backed up with unrivalled service support, available 24 hours a day with full on-site support, as well as back-office support for software and online diagnostics.

Looking to the future FirstClass are excited to be developing Rail Safety Systems that incorporate their Petrochemical industry knowledge for applications such as Hydrogen fuelled trains, where the TUV Functional Safety Engineer certification FirstClass hold is a pre-requisite for system design and verification.



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