



INDUSTRY BRIEF

Oil & Gas

Safe, reliable control for terminals, pipelines
and processing plant.

 MATRIX



What matters most

Major-accident prevention

At a COMAH site, control and safety systems are key layers of protection. They must be designed, tested and maintained so that you and the Competent Authority can rely on them when it counts.

Safety instrumented systems

Trips, shutdowns and permissives must achieve the SIL your hazard study requires, with proof testing and bypass management that stay practical for your operators and maintenance team.

Alarms operators can act on

In an upset, operators need to see the few alarms that matter. Rationalised, prioritised alarms and clear displays help them act quickly and correctly under pressure.

Cyber security

Control systems at terminals and pipelines are attractive targets. Segmented networks, controlled remote access and patching you can manage keep the process safe without slowing operations.

The standards that shape your project

Standard	What it covers
IEC 61511	Safety instrumented systems for the process industry, across the whole safety lifecycle.
COMAH Regulations 2015	Duties on operators of sites holding dangerous substances to prevent and limit major accidents.
DSEAR 2002 and IEC 60079 series	Explosive atmosphere risk assessment and zoning, and the protection concepts for equipment in hazardous areas.
IEC 62443	Cyber security for industrial automation and control systems, for owners, integrators and suppliers.
EEMUA 191 and IEC 62682	Good practice and requirements for designing and managing industrial alarm systems.
Pressure Systems Safety Regulations 2000	Safe design, protective devices, safe operating limits and examination of pressure systems.

The standards listed are those most often relevant to control-system work in this sector. Which apply to your project, and how, is agreed with you at specification stage.

From specification to long-term support



On a live hydrocarbon site, safety and production come first. We work within your permit-to-work and management-of-change procedures, prove new logic against a simulation of the process before it reaches site, and plan cut-overs around your shutdowns. You get the design, code and safety documentation to run and maintain the system yourselves.

Systems we engineer

- Tank farm and terminal automation
- Pipeline and pumping station control
- Emergency shutdown, fire and gas systems
- Loading, unloading and metering
- Compression and gas processing
- Alarm management and control room HMIs

PLATFORMS WE WORK WITH

Siemens TIA Portal, S7 and PCS 7 • Rockwell • ABB • Schneider • Mitsubishi • Beckhoff • Emerson DeltaV • Honeywell • GE • WinCC, Ignition, AVEVA (Wonderware), FactoryTalk, iFIX and Citect SCADA

The evidence you receive at handover

✓ Functional design specification

✓ I/O list and cause-and-effect

✓ Alarm list and HMI interface

✓ FAT and SAT records

✓ As-built drawings and source code

✓ Method statements for common faults

Why customers choose us

Standards first

An ISO 9001 certified quality system, designing to the standards your sector demands, plus any you specify.

You own the system

Clear structure, open interfaces and complete documentation, so you can support it yourself or with any vendor.

Tested before site

Control code is version-controlled and tested against a simulated plant before factory and site acceptance.

Multi-vendor

Siemens, Rockwell, ABB, Schneider, Mitsubishi, Beckhoff, Emerson, Honeywell and GE platforms.

In it for the long term

For us a project is not finished until the control system is decommissioned. 24/7 support is available under a support agreement.

OUR PROMISE

Standards-led, fully documented control systems that you own and can support.

GET IN TOUCH

Talk to us about your project

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