



CONTROL PANELS

CONTROL PANEL MANUFACTURE

CXControls designs, manufactures, and comprehensively tests a range of Industrial and Building Control Panels.

All our control panels are manufactured and tested in line with our ISO 9001:2015 accredited processes and procedures to meet the stringent criteria demanded by our clients.

- ✓ **Assured Quality & Compliance**
- ✓ **Safety by Design**
- ✓ **Built for Any Environment**
- ✓ **Fully Tested, Ready to Install**
- ✓ **Flexible, Bespoke Solutions**
- ✓ **End-to-End Delivery**



CAPABILITIES OVERVIEW

- ✓ **Safety:**
CXControls manufacture to the highest safety standards to meet the most stringent requirements.
- ✓ **Quality & Environment:**
We only use quality components from an audited, trusted supply chain.
- ✓ **Material:**
Choose from mild steel, 316 or 304 stainless steel, or GRP plastic to meet any environment your process demands, up to IP68 protection and ATEX/DSEAR requirements for Hazardous Areas.
- ✓ **Build to Print:**
CXControls can build to an existing drawing, CAD file, or other pre-designed format or provide a complete design service.
- ✓ **Full Specification & Design:**
Our design service is tailored to your process, environment, and functional requirements, meeting all required BS and EN standards.
- ✓ **Cable Entry**
Panels can be designed to meet any site constraints, either top or bottom entry or special entry arrangements to suit the location.
- ✓ **Mounting / Access**
Floor or wall-mounted, single or double doors, rear or front access or both. Or fully enclosed in steel shipping containers or GRP walk-in enclosures.
- ✓ **Fully Packaged**
Fully packaged modular solutions with optional off-site functional or process testing prior to delivery.
- ✓ **Form 1 to Form 4 Designs**
Segregation solutions to meet Form 1 to 4 defined in IEC 61439 requirements.
- ✓ **Acceptance Testing**
Full Factory Acceptance Testing at our HQ with Client Witnessing accommodated. Full off-site integrated Works Testing (IWT) of packaged plant by request.

ELECTRICAL DISTRIBUTION & DRIVES

CXControls deliver electrical distribution and drive control panels that manage power, control motors, and optimise energy efficiency.

Our solutions include:

FORM 4 SWITCHGEAR TO BS EN 61439-2:2011

Form 4 Switchgear is fully compliant and certified to BS EN 61439-2:2011. Types 1 to 7 are configured to meet specific client requirements and comply with all relevant standards. Front or back access with top or bottom cable entry options available.

PACKAGED MODULAR PANELS

Packaged modular panels with modular busbar systems. Control panel suites typically consist of a centralised drive section housing VSDs, DOLs and soft starters, fed via a mains-incoming section attached to modular busbar solutions. Typically used on loads less than 800A.

VARIABLE SPEED DRIVE PANELS

Stand-alone or multi-drive panel suites, available with local, remote or network control. PLC, BMS and SCADA interfaces supported, with full motor management options for improved energy efficiency.

BUILDING AUTOMATION PANELS

Panels supporting HVAC, heating and cooling, condition monitoring, air quality, occupancy, building fabric, access, fire and security integration.



SERVO DRIVE & MOTION CONTROL PANELS

Full servo drive control panels for machine build applications requiring high positional accuracy, excellent speed control and advanced torque management.

BESPOKE POWER DISTRIBUTION UNITS (PDU)

Power Distribution Units (PDU) for multiple-load distribution, IP68-rated.

Power panels or poles to meet any requirement, including Laboratory Mobile Testing Stations, Lorry Park Trailer hook-ups, Roadside Service Panels, supplied as standard or bespoke solutions with BS434 outlets or wired distribution centres.

ELECTRICAL BATTERY CHARGE STATIONS

A range of charge solutions, including car charging stations and forklift truck battery charging.

SMART ENERGY MANAGEMENT SOLUTIONS (SEMS)

Full Smart Energy Management Solutions with various control options from stand-alone to multi-energy modules, configured for single or multiple charge sources. Choose energy routes including Solar, Air or Ground Heat Pumps, Hydrogen Tanks, CHP and Multi-Field Boiler. Optimise selection efficiency based on multiple measured factors and extend to work with Cloud-based Enterprise Solutions.



PROCESS CONTROL & MEASUREMENT PANELS

CXControls manufactures specialist process control and measurement panels that provide control and monitoring solutions for a range of process plant and equipment. From a simple standalone controller to a fully automated production plant.

Our solutions range from:

SPECIALIST INSTRUMENT MEASUREMENT AND DATA ACQUISITION

A range of multipoint measurement or data acquisition panels to provide centralised solutions for standalone and integrated applications utilising specific field instruments, for example, Ultrasonics, Radar, Gas Measurement, analytics, etc.

Examples of some typical applications would include:

- Energy monitoring systems.
- Tanks farms.
- Analytical sample boards.

PLC AND SCADA CENTRAL CONTROL SYSTEMS

Fully automated PLC, SCADA and HMI control panels for all industrial processes, machine manufacturers or buildings.

Centralised and decentralised (Remote I/O) architectures from a range of manufacturers, including Siemens, Rockwell, Mitsubishi, and others, backed by our expert software integration services.



See more in our [System Integration Brochure](#).

STAND-ALONE CONTROL PANELS (BESPOKE)

Bespoke standalone panel solutions designed to meet specific process or manufacturing applications and client functional requirements. This could range from a single pump starter to a small subsystem plant requiring multiple inputs and outputs and PID loops.



EMERGENCY SHUTDOWN (ESD) AND SAFETY CONTROL PANELS (SCP)

Emergency Shutdown (ESD) panels from CXControls automatically shut down or place systems in a failsafe state in response to an unsafe event.

A safety control panel is usually supplied when the design HAZOP and LOPA identify that all safety functions of a system should be separated from the main control panel. Our solutions include hard-wired or programmable safety control panels and safety PLC's. Designed by TÜV Certified Engineers, and manufactured to our usual high standards to meet the required SIL level and environmental compliance.

- Functional Safety & Safety Instrumented System (SIS) design to BS EN61511/BS EN61508.
- Machine safety design to EN ISO 13849.
- Safety Integrity Levels-SIL 1 to SIL 3 design to IEC 62061.

HAZARDOUS AREA PANELS (ATEX/DSEAR)

We manufacture and certify a range of control panels for installation in ATEX/DSEAR hazardous areas, including Zones 1-2 for gas and Zones 20-22 for dust.

All our control and instrument circuits are designed to be intrinsically safe for explosive atmospheres.

- Hazardous area control systems design and documentation to IEC 60079-14.
- CompEx Ex12 design engineers.



UPS BACKUP PANELS

Uninterrupted power supplies (UPS) can provide backup power for a period of time in the event of a mains power failure, and can be used to:

- Maintain power only.
- Maintain power to enable a safe shutdown.
- Maintain power to critical instruments and valves, etc.

Either stand-alone packaged inline UPS or integrated UPS solutions for any of the above control panels.



INTEGRATED UPS

PNEUMATIC CONTROL PANELS

CXControls designs and manufactures pneumatic control panels for a wide range of industrial and machine automation applications. Our solutions are fully customisable to meet your process, safety, and control requirements.

The use of pneumatic control panels can provide a safe, viable alternative to electrically powered solutions, particularly in hazardous areas.



PNEUMATIC VALVE ROUTING PANELS

Stand-alone pneumatic control panels for the routing of liquids, gases and other media in process and manufacturing facilities.

Space-saving electro-pneumatic valve island control panels for multiple valve and pneumatic equipment operation and measurement. Solutions can be wired in a singular or multipole configuration, or via standard communication protocols, including RS485, Modbus, Profinet, etc.

PNEUMATIC MOTION CONTROL

A range of pneumatic control panels focusing on the operation of moving mechanical devices for the control of cylinders, rodless cylinders, pneumatic gears for positioning and speed control. These panels can be fitted with full-motion controllers or PLCs and used for single-acting or double-acting solutions.

CURRENT TO PNEUMATIC (I-P) CONVERTOR PANELS FOR PNEUMATIC ANALOGUE CONTROL.

I-P converter panels are typically used to convert standard instrument ranges (4–20mA, 0–10V, 1–5V) into pneumatic signals (3–15psi or split range) for the operation of pneumatic control valves or positional cylinders. They are particularly useful for operating valves in ATEX areas by positioning the panels outside the zoned area, allowing pneumatic-only solutions.

KEY ADVANTAGES

- ✓ **Enhanced Safety in Hazardous Areas**
Pneumatic control panels provide a safe alternative to electrically powered solutions, making them particularly suitable for ATEX and hazardous environments.
- ✓ **Intrinsic Reliability**
Pneumatic systems are robust, simple to use, and less susceptible to electrical interference, delivering dependable operations.
- ✓ **Flexible Process Control**
Suitable for routing liquids, gases, and other media, with solutions ranging from stand-alone panels to space-saving electro-pneumatic valve island systems.
- ✓ **Precise Motion Control**
Enables accurate positioning, speed control, and actuation of cylinders, rodless cylinders, and pneumatic gearing for mechanical motion.
- ✓ **Seamless Integration**
Supports wired, multipole, and standard communication protocols, including RS485, Modbus, and Profinet, with PLC or motion controller integration where required.
- ✓ **ATEX Compliance**
I-P converter panels allow electrical control systems to interface with pneumatic devices while keeping electrical equipment outside hazardous zones.





Cert No. 11635
ISO 14001, ISO 45001,
ISO 9001

Full Services list:

System Software Integration
Business Transformation
Process & MEICA Project Consultancy
Control Panels
Modular Manufacturing
Specialist Engineering Resources

Offices & Workshop:

Units 12/14
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Mochdre, Conwy,
LL28 5EF, UK.

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Learn more on
our website.

