



**BELMOS**  
ELECTRICAL SERVICES LTD

# Electrical Control Panels & Systems



Belmos Electrical Services Ltd : Unit 8, Dellburn Trading Park, 81 Meadow Road, Motherwell, ML1 1QB

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## **Belmos Electrical Services Ltd. is a well established manufacturer of Industrial Electrical Control Panels & Systems, which is based in Lanarkshire, Scotland.**

We have a dedicated team of engineers with a vast range of experience in the design, construction and commissioning of all Electrical Control Panels and Motor Control Centres, for use across numerous manufacturing applications.

We have a fully equipped, modern workshop with an experienced and skilled work force that can manufacture control panels of all sizes and types, from small individual Control Panels to a full suite of Control Panels built to the client's specifications or by our in-house design.

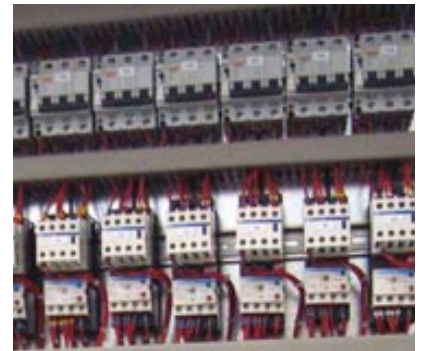
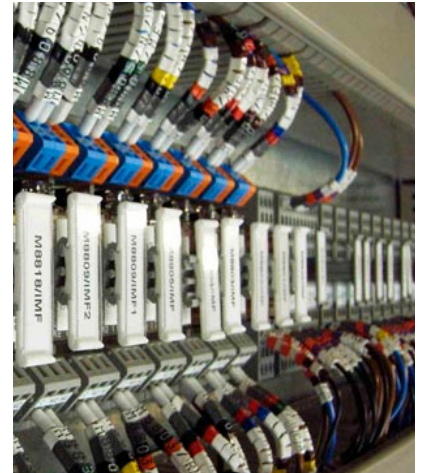
We pride ourselves on our standard of work and client relationships, and believe that high standards, flexibility and rapid response, at an economical price, are the keys to securing and maintaining our much valued clients.

Our design team provide a full consultancy service, undertaking a detailed assessment of your project, making recommendations and modifications where necessary. Once approved, the Control Panels are constructed in our workshops by skilled tradesman to the highest quality, using the best materials and components. We also undertake software development to compliment the use of Programmable Logic Control systems, SCADA, programmable devices, controllers or smart equipment.

### *Market sectors:*

Belmos Electrical Services Ltd. currently supply equipment and services to the following industries:

- **Water and Sewerage**
- **Paper and Pulp**
- **Oil and Gas**
- **Food and drink**
- **Renewable Energy industry**
- **Distillers**
- **Chemical Processing and Refining**
- **Continuous Process Industry**



“ Over the years our technical team have built and are continuing to maintain an enviable track record of engineering ability, with a commitment to a high standard of quality, service and attention to detail. ”



## Bespoke Control Solutions for unique applications

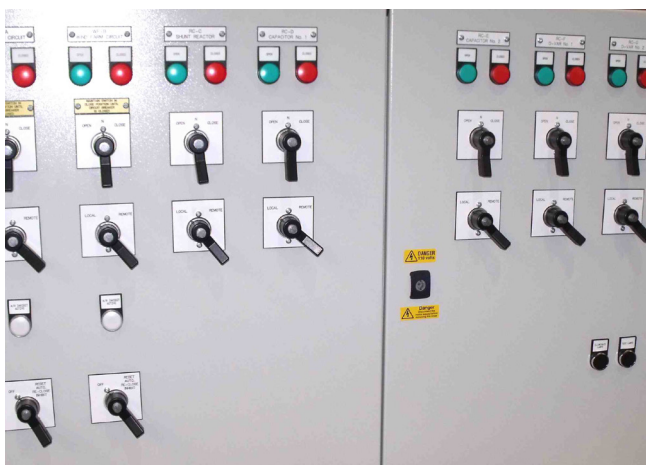


BES supply control solutions to a number of industries including food and drink processing, oil and gas, conveying and pumping systems. To meet the different needs of these industries, our control panels are custom built, encompassing varying techniques, which are applicable to each individual project. From small push button / indicator style stations to multi cubicle motor control centres, we can provide the ideal solution, so that you can stay in control, whatever the environment.

*Bespoke Control Panels from BES, can be manufactured from materials, such as Mild Steel, Stainless Steel, Polycarbonate or Aluminium and can include the following options:*

- Inverter Drives
- Softstarts
- Direct On-Line and Star-Delta Starters
- PLC & HMI's
- Instrumentation & Metering
- AC/DC Distribution
- 19" Rack Equipment
- Pneumatic Equipment
- UPS's
- PC's & Servers

We can also design & manufacture fully fitted, Power & Control Kiosks, Starter & Control Cases, 19" Rack Controls Facia's, Boxed Transformers complete with isolation and protection, Distribution Boards and Marshalling Boxes.



## Tested, Installed & Commissioned

Before leaving our workshops, all Control Panels are thoroughly checked and tested to ensure that they comply with, BS EN 60439-1 standards, CE requirements and machinery directives. They will then be transported to site.

Installation and commissioning can then be carried out by our engineering team.

Our custom Electrical Control Panels & Systems: Give you quicker access to the system information that you need. Provide you efficiency, reduced wastage and real money savings. Are designed to suit your application and your personal requirements.

**.....from design to delivery.**

## Motor Control centres and low voltage Switchboards

We can design and manufacture Motor Control Centres and Low Voltage Switch Boards to suit the client's present requirements, whilst considering existing future needs.

*Considerations include:*

- **Forms of Separations: Form 1 to 4, type 1 to 7 according to BS EN 60439-1.**
- **Partially or Fully type tested**
- **Fault rating e.g. KEMA certified 25KA / 1 sec, 50KA/1Sec.**



- **Air Circuit Breaker, Moulded Case Breaker, Fuse Switch or Isolator Incomer**
- **Circuit Breaker or Fuse Switch Feeders**
- **Fixed or Withdrawable Compartments**
- **Direct On Line, Star-Delta, Softstart or Inverter Starters**
- **AC or DC control voltage**
- **Local, remote and/or auto control**
- **Monitoring / Instrumentation**
- **Power factor Correction**
- **Future development requirements**

## Programmable Logic Controllers and Human, Machine Interfaces

The majority of modern Process Control Systems now require programmable control. PLC's and HMI's offer the ideal control solution, as programming can be altered quickly and efficiently.

BES are experienced in the design and manufacture of PLC Control Panels for process control and automation systems.

*We are able to offer control solutions from all the major manufacturers:*

- **Allen Bradley**
- **Siemens**
- **Mitsubishi**
- **Toshiba**
- **Modicon**
- **GE Fanuc**
- **Telemecanique**
- **Omron**
- **Crouzet**
- **Red Lion**



Plus solutions from many of the other less known PLC and HMI manufacturers.

*System Types Available:*

- Dual redundancy
- Hot Standby
- SIL1 -3: Fail Safe

## Repair, Upgrade and Refurbishment

Belmos Electrical Services Ltd can provide Repair, Upgrade or Refurbishment of your existing Control Panels and Systems, as this can sometimes prove to be a more efficient and cost effective solution.

*This service can include:*

- **Verification and tracing of existing Control Panel wiring.**
- **Downloading and investigation of programming software.**
- **Modifications carried out at your premises.**
- **Commissioning and final verification of the reworked system.**
- **A set of electronically produced diagrams to reflect all upgrades, modifications or repairs.**



All modifications and upgrades are carried out to the highest standards and current legislation.

## Hazardous Area control Systems

We can provide custom built systems offering flexibility to meet all of our clients needs, and certified with an overall system certificate to the latest CENELEC ratified standards for hazardous area installations.

*Solutions provided for :*

- EExd : Flameproof
- EExe : Increased Safety
- EExi : Intrinsically Safe



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