



**LLOYD MORRIS
ELECTRICAL LTD**



At the forefront of control panel
and system design and installation

Addressing today's industry challenges

Against the ongoing pressure to do more for less, how do you boost productivity, optimise performance and reduce costs?

As you strive to improve production reliability and reduce expenses in an increasingly competitive marketplace, Lloyd Morris Electrical Ltd (LME) has the knowledge and expertise to help you reap the benefits of advanced control and automation. We combine an unparalleled understanding of the demands of industry with an unrivalled capability in automation systems design and installation to help you raise your productivity and reduce costs, ensuring you get the maximum return for your systems investment.

LME has consistently stayed at the forefront of industry's demands, building a reputation for quality products and services. We understand your desire for the most technologically advanced installations, tempered with the requirement for absolute reliability. By combining our knowledge of the real world demands of today's industrial landscape with our unmatched understanding of fast-evolving technologies, we deliver innovative systems that will meet and exceed your expectations in all areas.

We know that your own business challenges, the needs of your customers, and the fast-paced evolution of control technologies are constantly moving the yardstick for success in any control and automation project. Our commitment to building an unrivalled industry understanding, in parallel with our ability to stay ahead of the technology curve, is a key strength, enabling us to develop partnerships with our customers based on quality, trust and satisfaction.



We are also aware of your environmental concerns and responsibilities. LME is an environmentally-aware partner for your business: we constantly strive to minimise our environmental impact, to reduce our carbon footprint, and to exercise sustainable procurement.

Extending our capabilities with the full resources of the CEMA Group

Established in Wrexham in 1974, LME quickly grew to become one of Wales' foremost electrical engineering and contracting companies. Today our reputation and reach extend across the whole of the UK and into international markets, where we bring our unrivalled expertise to bear on projects of all sizes, ranging from the design of a single control panel to the manufacture and installation of a complete plant control system.

Within our fold is sister company Merlin Systems Ltd (MSL), established by LME in 1980 as a software integration systems house specialising in the development and integration of control systems for industry.

Acquired by the CEMA Group in 2009, LME and MSL have new impetus for growth. In addition to our comprehensive in-house capabilities, we can now also draw on the extended resources and skillsets of the complementary businesses in the CEMA Group. Today these companies include:

- CEMA Ltd
- Viking Pumps
- Derby Stove
- Nottingham Crane
- Labtec
- Chartwell Consulting
- CEMA Business Solutions
- East Midlands Computing
- JP Engraving

These complementary businesses give us the added facilities of pump system integration, transportation, vending, stove enamelling, sheet metal fabrication, site services and consultancy services. And the CEMA Group continues to grow with new business units and further acquisitions, adding further depth of resources to all companies in the group.

Industry Knowledge

Unrivalled knowhow, unmatched capability

We recognise a need to address specific business issues: we develop appropriate systems that draw on our unique understanding of different industry sectors

We are specialists in the design, manufacture and installation of high quality electrical distribution and control systems, with a reputation for excellence in even the most challenging or sensitive of projects. And in everything we do, we recognise that you need not only the very best systems, but also the very highest levels of service.

We have a huge depth of capabilities and in-house resources, and a proven track record in delivering high quality systems across the spread of industrial and commercial business sectors. Our client list boasts many of the biggest names in industry, across a spread of sectors which includes:

- Water and wastewater utilities
- Power generation utilities
- Aggregates markets
- Minerals and extraction industries
- Metals processing
- Automotive and aerospace sectors
- Construction industry

- Foodstuffs and pharmaceuticals industries
- Materials handling
- Local authorities
- Industrial and commercial installations
- And beyond

Companies in all of these sectors, at home and abroad, have turned to LME for innovative systems that address today's business challenges. This broad experience is vital, because appropriate systems development can only come from a fully rounded understanding of today's market requirements.

We have particular expertise within the water and wastewater treatment sector, where we have won our place on numerous procurement frameworks by demonstrating not only effective systems design capability, but also a unique understanding of the specific requirements of this demanding sector.



Advanced Design

Control panels, MCCs, HV/LV distribution boards

LME is committed to adding value by designing panels tailored to your exact requirements that deliver on the promise of optimised performance

At our head office in Wrexham we design and manufacture high quality, technologically advanced control panels and automation systems. Our workshops are fully equipped with the most modern tooling, and staffed by the most experienced panel builders and project engineers.

With workshop areas in excess of 1000m² and using the latest manufacturing techniques, we provide a service which covers all types of control panels from LV distribution systems and Motor Control Centres, to instrumentation and control consoles – all of which can be manufactured to any required specification, with construction following the most exacting standards. And our tightly managed production programme means scheduled completion is always guaranteed.

While other companies may look to steer you in directions that are best for themselves, our commitment is to develop systems that are best for you, ticking every box of your application, implementation and project cost requirements. Our in-house capabilities mean that we are not confined to using just off-the-shelf enclosures, but can also build systems around customised or purpose designed steelwork. And our innovative systems can draw from any combinations of conventional control equipment or the latest computer/PLC systems.

We are adept at building control panels and MCCs of any size and configuration. For timely assembly of panels to optimum schedules, we maintain stocks of core items, with many standard products readily available.

We manufacture to the high standards of quality demanded by our ISO 9001 accreditation, following prescribed procedures and compiling full documentation. All control panels are also rigorously tested and inspected prior to delivery and acceptance.

At the leading edge of the technology curve

To ensure we meet your exacting control needs, we have close working relationships with all the leading control, automation and distribution equipment vendors, including:

- Mitsubishi Electric
- Schneider Electric (Telemecanique, Merlin Gerin, Square D)
- ABB
- Control Techniques
- Siemens
- Omron
- Rockwell Automation (Allen-Bradley)
- GEC
- And many others

These relationships help to keep us ahead of the curve with the latest technologies and ensure that we are always offering you the very best advice and the very highest system performance. It also means that we can always meet your particular site standard with absolute confidence.



Installation Services

for Industrial, Commercial and Water projects

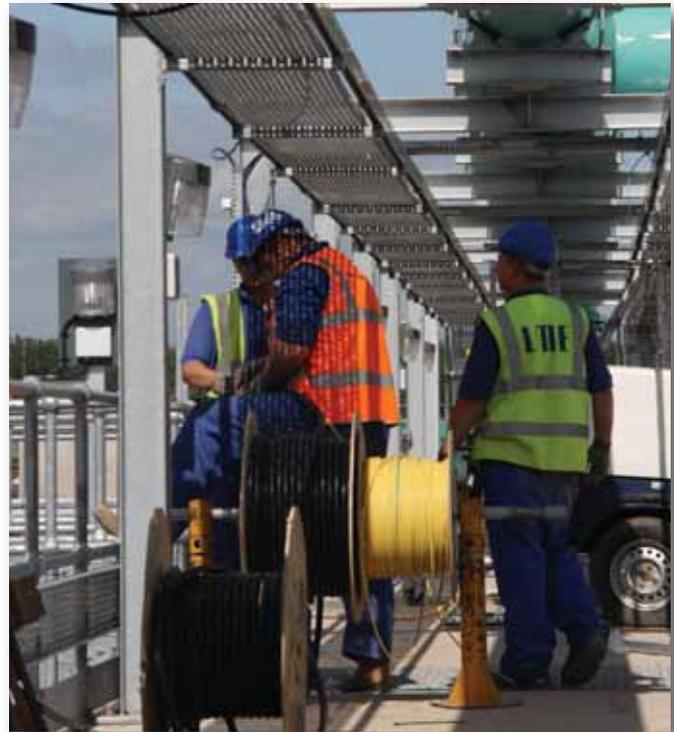
Lloyd Morris Electrical has the resource, capability and experience to take project from concept to completion, and beyond through full maintenance services

Combining the manufacture of control system hardware, in parallel with the development of software, and extending this to full project installation capabilities, LME can provide a single point of responsibility and control for any contract. We have the capability and experience to provide a complete installation and maintenance service.

This ranges from industrial, commercial and water projects to intrinsically safe and HV/LV distribution systems. All of these are designed to comply with the latest edition of the IEE Regulations, Electricity At Work Act, and current UK and European legislation.

With a large, fully qualified and competent workforce we are capable of working to very tight schedules whilst maintaining the safe working practices required by current legislation. With our large fleet of vehicles, no location is too remote, enabling us to offer a comprehensive range of installation services across the UK and overseas.

We have a highly engineering department with the resources necessary to support all levels of installation, commissioning and training. Our project engineers are fully aware of the requirements and working standards demanded by a broad range of industries.



LME is certified as an NICEIC approved contractor, and has been accepted by various other bodies, following training and certification, as an approved manufacturer and installer using specialist techniques or standards particular to certain industries. In addition, we have certified Profibus installers and Compex EX09 and EX10 trained personnel for testing and certification work on electrical apparatus for use in potentially explosive atmospheres.

All our engineers are well versed with the requirements of HSE for safe working practices, the Electricity at Work Act, the most recent edition of the IEE Wiring Regulations and other legislation particular to the electrical contracting industry.

To complete our installation services, we can offer a maintenance and support facility for both new and existing installations, providing the reassurance of sustained plant operation. Our service department can undertake all aspects of electrical breakdown, preventive maintenance and replacement installation. The service is responsive, reliable and can be tailored to meet your individual requirements.

Integrated Systems

Increased efficiency and improved flexibility

The ability to respond to changing market conditions and customer requirements is vital today. LME's systems design capability gives you integrated control systems that hold the key to greater efficiency and more flexible processes

The requirements of automation systems have changed dramatically in recent years, as companies face increasing pressures to respond much more dynamically to external drivers. Modern control systems, then, should promise much more than simply meeting a specification. They should also provide a key business tool that helps to raise productivity levels by boosting overall control performance, enhancing reliability, minimising downtime and simplifying maintenance.

LME is adept not only at standalone control panel design, but also at the development and implementation of fully integrated projects. Our highly qualified engineering team includes software and commissioning personnel with a wealth of real world applications and systems experience.

We have the capability to develop complex and highly structured software and to build integrated projects that extend through all levels of the enterprise. These range from basic PLC systems and HMI/SCADA controlling processes and manufacturing plant, through to commercial and industrial databases and high level Management Information Systems (MIS), producing essential business information.

These integrated systems deliver on the promise of achieving greater operational efficiencies, improving profits by reducing waste, simplifying and reducing the cost of maintenance, and delivering many other real benefits that ensure you get the maximum return on any investment.



The scope of our systems design and implementation capability encompasses:

- **HV and LV distribution systems**
- **Industrial control and automation**
- **Process control and instrumentation**
- **Intrinsically safe and other specialist forms of installation**
- **Network and data cable or fibre optic systems**
- **Commercial and building installations**
- **Energy management systems**

Our ability to develop hardware and software for innovative control systems comes hand in hand with the capability to design and configure latest data and fieldbus network systems, proving a fully integrated solution to any new or existing application.

This, combined with our extensive knowledge of the latest in technology, allows us to contribute a 'value added design' for any project. By developing software in parallel with the design, manufacture and installation of control system hardware, we are able to offer fully integrated systems that fulfill today's increasingly business objectives.

Certification and Quality

Quality assurance and industry certification

For ultimate peace of mind, our everyday operations embrace quality as standard, meeting the highest levels of quality assurance and industry certification

At LME we are totally committed to the principles of quality assurance. In particular, the company is BS EN ISO 9001:2000 accredited, ensuring that all products are manufactured to the highest quality requirements demanded by this internationally recognised standard.

An important aspect in the development of any project is the design and provision of professionally presented documentation. To meet your particular needs, our team of draughtsmen are well equipped with the latest AutoCAD systems. Our project engineers also have access to software tools in order to perform cable and lighting calculations, cable and instrumentation scheduling, rating of protection devices, and overall contract programming and scheduling – all essential for the efficient design and management of any contract no matter how stringent.

Both during and upon completion of panel and system designs, documentation can be developed and presented in line with any customer specification.

Our installation and cabling services are fully approved to the highest industry standards.

We also take our social and environmental responsibilities seriously, working within our own business and throughout our supply chain to exercise corporate social responsibility and sustainable procurement. We are constantly looking at ways to reduce our carbon footprint, and are fully certified to BS EN ISO 14001:2004 environmental management standards.

- Quality management system to ISO 9001
- Environmental management system to ISO 14001
- Occupational health and safety management to OHSAS 18001
- Control panels CE approved and documented to BS EN 60439-1
- Cabling installation NICEIC approved to BS 7671
- UVDB approved for the utilities sectors
- Member of the Electrical Contractors Association



Specialists in

Control Systems
Distribution Systems
Electrical Installations
Maintenance Contracts

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Wrexham

Regional Offices

Anglesey

Bridgend



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