



Access the European Market for Industrial Control Panels

Meet applicable Directive requirements with a CE Mark

Manufacturers of Industrial Control Panels (ICP) intended for European ordinary locations must comply with applicable Directives and “self declare” by applying the CE Mark.

Help ensure successful entry into the European market with self declaration and applying the CE Mark. The [CE Mark](#) on a product is a declaration by the manufacturer that it meets all legal requirements and/or Directives for CE Marking and can be sold throughout the European Economic Area (EEA). A manufacturer determines the applicable Directives based on the product’s scope and intended use. The following Directives relate to an ICP:

- [Low Voltage Directive](#)
- [Electromagnetic Compatibility \(EMC\) Directive](#)
- [Machinery Directive](#)

To determine compliance with these directives, there are various approaches based on the intended use of the product. The most common is to comply with the appropriate EN standards. They are based on IEC standards and may include EU national deviations.

Third Party Expertise

Do your due diligence by engaging with an experienced and trusted third party, such as UL, to conduct a construction review and generate test data to demonstrate compliance to the applicable EN standard(s). This report is referred to as a Technical Report Form or TRF (also known as an Informative test report). The manufacturer adds the TRF to their overall “technical construction file” (TCF) used in the self declaration process. Also, if called upon by the EU officials, this overall TCF will be necessary documentation. UL can conduct the construction evaluation, the testing portion, or both.

Directive Standards for Compliance

The applicable standard for the Low Voltage Directive (LVD) may be one or more of the following:

- EN 61439-1: Low Voltage Switchgear and Controlgear assemblies, General Rules
- EN 61439-2: Low Voltage Switchgear and Controlgear assemblies, Power Switchgear and controlgear assemblies
- EN60204: Safety of machinery - Electrical equipment of machines - Part 1: General requirements
- EN61010-1: Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements

The applicable standard for the EMC Directive is:

- EN61000-6-4: Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments

If each component has undergone EMC testing, further assembly testing may not be needed. In addition to the technical reports, UL can help assemble the overall technical file, which includes: 1) all the critical information providing evidence of conformity and 2) the Declaration of Conformity, ready for the manufacturer’s signature.





Differences between ICP UL Listing and CE Marking

Components – All critical components in a CE Marked panel should bear the CE Mark. An alternate to the CE Mark would be an attestation from the component manufacturer that the component meets the appropriate Directives/EU standards.

Testing – When using UL 508A standard, testing is often waived based on the use of certified components and construction. However, EN standards typically require testing. In most cases, testing will need to be done at the clients' facility or another third party lab at the applicable voltage, frequency and current. In addition, while UL certification does not require EMC testing, the EMC Directive has mandatory testing requirements for immunity and emissions. If requested, UL as a Notified Body in the EU is able to conduct this testing at one of our EMC labs.

Why choose UL?

UL drives global research and standards to continually advance and meet ever-evolving product safety, performance and interoperability needs. UL's global network of technical experts and state-of-the-art facilities, along with our longstanding relationships with regulatory authorities, partner laboratories and industry technical leaders, helps manufacturers gain the compliance credentials they need to compete in a more complex global supply chain.

Knowledge & Experience – our experienced staff will advise you from the initial design stage of product development through testing and production.

Speed & Efficiency – our cost-effective systems and state-of-the-art facilities cut through the red tape and help accelerate your time to market.

Single Source Provider – UL meets all of your compliance needs and, by bundling safety, performance and interoperability services, also helps save you valuable time and money.

Global Reach & Access – our global network of expert engineers helps you understand the various national and global requirements for your specific market application.

For more information on global market access visit ul-certification.com or email: IndustrialQuote@ul.com.