

Expand into new hazardous locations markets for industrial control panels

Enter new markets with extended ambient temperature and limited production certifications from UL Solutions

UL Solutions efficiently provides the certification of custom-built industrial control panels with our limited production certification and expanded ambient temperature range rating, opening up new opportunities to market your existing panel designs across North America. Work with a trusted, science-based partner and you can increase your competitive advantage and achieve greater efficiencies, widespread acceptance and more component sourcing flexibility.

Panels for use in ordinary locations

ANSI/UL 508A, the Standard for Industrial Control Panels includes requirements covering general-use industrial control panels and panel enclosures, as well as specific-use panels for industrial machinery, air conditioning and refrigeration, crane control, elevator control, flame control, marine use and use as service equipment. These panels are for installation and use in ordinary locations in accordance with the National Electrical Code (NEC) and Canadian Electrical Code (CEC). Compliance with UL 508A is a prerequisite to building UL Listed hazardous locations panels. Achieve greater efficiencies and acceptance when your products can go to market with the UL, C-UL and UL/C-UL Marks.

Panels relating to hazardous locations

The requirements found in ANSI/UL 698A cover panels intended for installation and use in ordinary locations with intrinsically safe circuit extensions into Class I, II and III, Division 1 hazardous (classified) locations. Panels relating to hazardous locations require the use of UL Certified (Listed) barriers to make the circuit extensions intrinsically safer. Control drawings are also required with each panel to help ensure proper interconnection in the field in accordance with the NEC and CEC.

Panels for use in hazardous locations

The requirements cover panels for installation and use in Class I, Divisions 1 and 2 hazardous (classified) locations. We offer a modular Listing program for explosion-proof panels per ANSI/UL 1203, the Standard for ExplosionProof and Dust-IgnitionProof Electrical Equipment for Use in Hazardous (Classified) Locations purged and pressurized panels per NFPA 496, and nonincendive panels per ANSI/UL 121201, the Standard for Nonincendive Electrical Equipment for Use in Class I and II, Division 2 and

Class III, Divisions 1 and 2 Hazardous (Classified) Locations. One or all of these methods of explosion protection may be covered by our hazardous locations certification in accordance with the NEC and CEC. Purged and pressurized Type Z panels and nonincendive panels can be certified up to a +60°C ambient temperature under our standard offering. Other ratings or types of explosion protection may be certified following a special engineering investigation.

Limited production certification

Limited production certification makes certification more efficient for manufacturers producing small-volume or unique panels. The process of limited production certification better aligns with your business model by eliminating surveillance costs while earning the familiar and well-respected UL certification Mark.

Evaluating panels in the field

UL Solutions technical staff also conducts on-site safety evaluations that include testing, construction examination and installation review of products that have already been installed in the field. We can respond to your request quickly and efficiently to help meet your tight schedule while delivering a smooth inspection process.

Why UL Solutions?

The benefits of working with a trusted, science-based partner like UL Solutions include:

- Efficient certification of customer-specific panels
- Increased confidence that your control panels meet safety requirements in explosive atmospheres
- Expanded knowledge of our safety Standards
- Avoiding red-tagged products in the field
- Fewer questions from electrical inspectors
- Solidified market reputation — an advantage over your competition
- Help with global market access

To learn more, call **1.877.854.3577**, visit us at UL.com/HazLoc or email: UL.HazLocPanels@ul.com.



Safety. Science. Transformation.™