Expand into new hazardous locations markets for industrial control panels

Enter new markets with ATEX, IECEx and Extended Ambient Temperature certifications from UL

UL further simplifies the certification of custom-built industrial control panels by now including an expanded ambient temperature range. These expanded certification services open up new opportunities for marketing your existing panel designs across North America and beyond.

Panels for use in ordinary locations

ANSI/UL 508A 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 build UL Listed hazardous locations panels.

Panels relating to hazardous locations

These requirements found in ANSI/UL 698A covers panels intended for installation and use in ordinary locations with intrinsically safe circuit extensions into Class I, II, and III, Division 1 and 2 hazardous (classified) locations. Panels relating to hazardous locations require the use of UL Listed barriers to make the circuit extensions intrinsically safe. Control drawings are also required with each panel to assure proper interconnection in the field in accordance with the NEC and CEC.

Panels for use in hazardous locations

These requirements cover panels for installation and use in Class I, Divisions 1 and 2 hazardous (classified) locations. UL offers a modular listing program for explosion-proof panels per ANSI/UL 1203, purged and pressurized panels per ANSI/NFPA 496, and Division 2 panels per ANSI/UL 121201. One or all of these methods of explosion protection may be covered by the UL hazardous locations certification in accordance with the NEC and CEC. Purged and pressurized panels and Division 2 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.

ATEX and IECEx

The UL and ATEX/IECEx Panel Shop Program allows the flexibility of a "general coverage" type program for building custom control panels for Zone applications utilizing ATEX/IECEx certified enclosures and equipment. As part of the UL ATEX/IECEx Panel Program the manufacturer can apply for an ATEX and IECEx certificate number to the assembled panel. Prior to this program, clients had to submit each design for certification and approval, which was both costly and time consuming.

Benefits of working with us

- Simplifies certification of customer specific panels
- Increases confidence that your control panels are safe in explosive atmospheres
- Expands your knowledge of UL safety standards
- Avoids red-tagged products in the field
- Minimizes questions from electrical inspectors
- Solidifies market reputation — an advantage over your competition
- Assists with global market access

Evaluating panels in the field

UL technical staff also conduct 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, trouble-free inspection process.

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

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