



**Underwriters
Laboratories Inc.®**

UL's Hazardous Location Industrial Control Panel Program

INDUSTRIAL CONTROL EQUIPMENT

UL certifies industrial control panels for use in ordinary locations, for use in hazardous locations, or for use relating to hazardous locations. These certification services are accepted in every jurisdiction across North America – and open up new opportunities for marketing your existing panel designs.

The industrial control panels covered by these UL services are assemblies of components such as motor controllers, overload relays, fused disconnect switches, circuit breakers and related control devices. These related control devices may include pushbutton stations, selector switches, pilot lights, control relays and the like. Associated wiring terminals and similar components are also included.

Panels for use in ordinary locations

UL 508A, the Standard for Safety of Industrial Control Panels, includes requirements covering industrial control panel enclosures and industrial control panels for general use, 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. This equipment is for installation in ordinary locations in accordance with the National Electric Code®, NFPA 70. Compliance with UL 508A is a prerequisite to building Hazardous Location panels mentioned below.

Panels relating to hazardous locations

These requirements, found in UL 698A, the Standard for Safety of Industrial Control Panels Relating to Hazardous (Classified) Locations, cover panels intended for installation in ordinary locations with intrinsically safe circuit extensions into Class I, II and III, Division 1 and 2; and Class I, Zone 0, 1 and 2 hazardous (classified) locations installed in accordance with Article 500, 504 and 505 of the National Electric Code®, NFPA 70.

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.

(continued)



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**For information on becoming a UL Listed Panel Shop, please go to www.ul.com/controlequipment/icp.html.
For general information, please call UL Customer Service at 1-877-854-3577.**

Panels for use in hazardous locations

These requirements cover panels for installation and use in Class I, II and III, Divisions 1 and 2; and Class I, Zone 0, 1 and 2, Groups IIA, IIB and IIC hazardous (classified) locations in accordance with Articles 500 – 505 of the National Electrical Code®, NFPA 70.

These panels are designed to address the presence of arcing parts and elevated temperatures that can potentially become an ignition source in accordance with one of the NEC-allowed methods of protecting electrical equipment used in hazardous locations.

There are multiple protection methods available; one or all methods may be covered by the UL hazardous locations certification as follows:

Division 1 and 2 applications

- (Class I only) UL explosion-proof enclosures per UL 1203 required, in addition to restrictions on internal component
- (Class II only) UL dust-ignition-proof enclosures per UL 1203 required, in addition to restrictions on internal components
- (Class I and II) UL purged/pressurized enclosures per NFPA 496 required, in addition to restrictions on internal components

Division 2 applications

- (Class I, II and III) UL enclosures and components per UL 1604 required

Zone 1 and 2 applications

- (Class I only) UL enclosures and components per the UL 60079 series required

Evaluating panels in the field

UL technical staff conducts on-site safety evaluations that include testing, 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.