



INDUSTRIAL CONTROL EQUIPMENT

These product category descriptions are to be used in conjunction with the “Overview of ARL’s Listing, Labeling and Follow-Up Inspection Services” (LSc001) which details ARL’s system requirements for obtaining a listed product certification.

This includes the following subcategories:

- **Industrial Control Equipment and Panels**

Industrial Control Equipment and Panels

The products listed here are industrial control devices, and device accessories for starting, stopping, regulating, controlling, or protecting electric motors. Included are industrial control devices or systems that store or process information and are provided with an output motor control function(s). The equipment is rated 1500 volts or less and is for use in ordinary locations in accordance with the National Electrical Code, ANSI/NFPA 70.

The requirements for this category also cover industrial control panels that are assemblies of industrial control devices and other devices associated with the control of motor operated and related industrial equipment. Examples of devices in an industrial control panel are industrial control devices, disconnecting means, motor branch circuit protective devices, temperature control devices, and electrical instruments.

Examples of industrial control devices described above are: manual, magnetic, and solid state starters and controllers; thermal, magnetic, and solid state overload relays; push-button stations, including selector switches and pilot lights; control circuit switches and relays; float, flow, pressure, and vacuum operated switches; resistors and rheostats; proximity switches; time delay relays and switches; resistors and rheostats intended for industrial heating and lighting, including those for motor generator fields; control devices intended for industrial heating and lighting; solid state power conversion equipment; solid state time delay relays; programmable controllers; numerical control systems; lighting dimmer systems and controls; mercury tube switches; definite purpose controllers; solid state logic controllers; industrial microprocessor/computer systems; variable voltage autotransformer; and motor starting autotransformer.

An industrial control panel for the control of metalworking machine tools or plastics machinery is judged on the basis of compliance with the applicable requirements of this category as well as requirements in the **Electrical Standard for Industrial Machinery, ANSI/NFPA 79.**

A fire pump controller is judged on the basis of compliance with the applicable requirements in this category and additional requirements in the Standard for Centrifugal Fire Pumps, NFPA 20.

Devices that regulate temperature and/or control refrigeration equipment are covered by the Standard for Electrical Temperature Indicating and Regulating Equipment, UL 873, and other applicable standards.

Electrical instruments are covered by the Standard for Electrical Analog Instruments – Panelboard Types, UL 1437.

Each product is marked with the name or trademark of the (manufacturer) or vendor, a distinctive style, type, catalog or model designation, date code, electrical ratings, electrical hazard warnings, and other cautionary and hazard warnings as applicable.

These products comply with ARL requirements which include pertinent sections of the **Standard for Safety, ANSI/UL 508, Industrial Control Equipment.**

A product that contains features, characteristics, components, materials, or systems new or different from those covered by the requirements of the standard, and that involve a risk of fire, electric shock, or injury to persons, have been evaluated using the appropriate additional component and end-product requirements as determined necessary to maintain the acceptable level of safety as originally anticipated by the intent of the standard. A product whose features, characteristics, components, materials, or systems conflict with specific provisions of the standard have been judged to be in non-compliance with the standard.

Only products which properly bear the ARL Listing Mark (Label) are considered Listed by ARL.