




## Approvals & Standards

Approval	Explanation
	<p><b>UL Listing Mark</b></p> <p>This is one of the most common UL marks. If a product carries this mark, it means UL found that samples of this product met UL's safety requirements. These requirements are primarily based on UL's own published Standards for Safety.</p>
	<p><b>C-UL / US Listing Mark</b></p> <p>UL introduced this new listing mark in early 1998. It indicates compliance with both Canadian and U.S. requirements.</p>
	<p><b>Recognized Component Mark for Canada and the United States</b></p> <p>These are marks consumers rarely see because they are specifically used on component parts that are part of a larger product or system. These components may have restrictions on their performance or may be incomplete in construction. Products that bear this mark comply with the safety standards of Canada and the U.S.</p>

### UL Listing vs. UL Recognition What's the difference?



A product is UL Listed if the UL Listing Mark is on the product, accompanied by the manufacturer's name, trade name, trademark or other authorized identification.

A UL Listing Mark on a product is composed of four elements: the "UL in a circle Mark", the word "LISTED" in capital letters, an alpha-numeric control number, and the product name. Sometimes the UL file number is used as company identification. The UL Listing Mark on a product is the manufacturer's representation that samples of that complete product have been tested by UL to nationally recognized Safety Standards; found to be free from reasonably foreseeable risk of fire, electric shock and related hazards; and that the product was manufactured under UL's Follow-Up Services program.

If you do not find a UL Listing Mark on the product, you may find, on closer examination, that some of the individual components have the UL Recognized Component Mark. The UL Recognized Component Mark means that the compo-

nent alone meets the requirements for limited, specified use. UL's Component Recognition Service covers the testing and evaluation of component products that are incomplete or restricted in performance capabilities. These components will later be used in complete end products or systems listed by UL.

UL's Component Recognition Service covers millions of components, such as plastics, wire and printed wiring boards, that may be used in either very specific, or a broad spectrum of end-products, or even components such as motors or power supplies. These components are not intended for separate installation in the field. They are intended for use as components of complete equipment submitted for investigation to UL. Component/end-product compatibility is the critical link between certification of a component and certification of the end product in which the component is used.

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	<p>The CSA mark may appear alone or with indicators. If it appears alone, it means that the product is certified for the Canadian market, to the applicable Canadian standards.</p>
	<p>Many products seeking entry into the European Union must comply with the European Directives and bear the CE Marking. The CE Marking is the manufacturers self-declaration, showing compliance with all applicable directives.</p>
	<p>DEMKO's D-Mark represents electrical product safety for a great majority of consumers. The D-Mark is recognized throughout the EU as a reputable European third-party mark of electrical product safety.</p>
	<p><b>International "emc-Mark"</b></p> <p>The International "emc-Mark" appears on products meeting the electromagnetic compatibility requirements of Europe, the United States, Japan, Australia, or any combination of the four. In the United States, some types of products can't be sold without proof of compliance to U.S. electromagnetic compatibility requirements.</p>










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Terms

Approval	Explanation
	<b>C-tick Mark</b> Applying the C-tick mark to a product indicates compliance with Australian EMC regulations.
 	<b>TÜV Product Service</b> The TÜV Product Service mark demonstrates that you meet European Health and Safety Requirements of safety directives. Both the older and newer marks are shown to the left, as IDEC products bear one or the other.
 TÜV Rheinland	<b>TÜV Rheinland</b> The TÜV Rheinland mark demonstrates compliance with European safety requirements.
 HOUSE MARK	<b>VDE Mark</b> The VDE Mark indicates conformity with the VDE standards or European or internationally harmonized standards and confirms compliance with protective requirements of the applicable EC Directive(s).
  ET	The BIA is a test and certification body affiliated with the testing and certification system BG-PRÜFZERT of German institutions for statutory accident insurance and prevention (BG means Berufsgenossenschaft). The BIA has received accreditation from the central office of safety technology of the Länder (ZLS). The BIA acts as a test and certification body for products under the terms of the EC Directive for personal protective equipment.
	The CCC Mark is a labeling requirement for select products entering China. Essentially, the CCC Mark verifies to customs officials that a product complies with safety and quality requirements set by the Chinese government. Compliance is demonstrated by the manufacturer affixing the CCC Mark to their products.
 APPROVED	Factory Mutual is a test and certification body specializing in approvals for Hazardous Locations products.

## Hazardous Location Definitions

<b>Class I:</b> An area with flammable gases, vapors or liquids	Division 1: Where ignitable concentrations of flammable gases, vapors, or liquids can exist all of the time under normal operating conditions. Division 2: Where ignitable concentrations of flammable gases, vapors, or liquids are not likely to exist under normal operating conditions.
<b>Class II:</b> An area with combustible dusts	Division 1: Where ignitable concentrations of combustible dusts can exist all of the time or some of the time under normal operating conditions. Division 2: Where ignitable concentrations of combustible dusts are not likely to exist under normal operating conditions.
<b>Class III:</b> An area with ignitable fibers and flyings	Division 1: Where easily ignitable fibers or materials producing combustible flyings are handled, manufactured, or used. Division 2: Where easily ignitable fibers are stored or handled.