



# CE Marking – consumer and environmental protection

An Introduction to EU Regulations for Electronic products in the EU.

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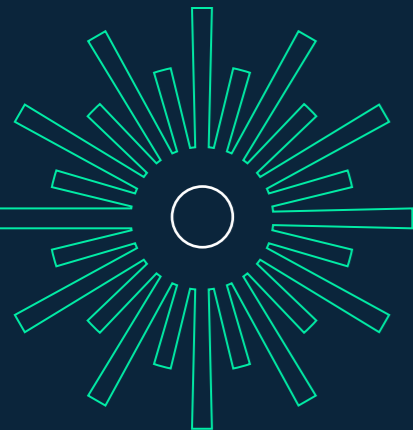
The European Union has several compliance requirements for electronic products, under CE Marking, including the Low Voltage, EMC, RoHS, REACH, and WEEE directives. These directives impact electronic product manufacturers and consumers in several ways.

**CE Marking** is, in most cases, a manufacturer's self-declaration of compliance to these directives that shows that a product meets all the safety, health and environmental requirements set by the European Union. It is mandatory for electronic products sold in Europe, and products that do not have CE Marking may not be imported or sold in the EU. CE Marking gives manufacturers the ability to sell their products in all EU countries and shows that the product meets the high standards set by the EU. Higher risk devices like pressure equipment or medical devices will require Certification under different CE marking requirements.

**RoHS** (Restriction of Hazardous Substances Directive) is a directive with the goal of reducing the amount of hazardous materials in electronic equipment that ultimately may end harming the environment. This directive applies to all manufacturers within the European Union and forces them to meet specific requirements about the use of hazardous substances in their products.

The **REACH Directive** is a piece of European Union legislation that deals with the Registration, Evaluation, Authorization and restriction of Chemicals. The overall aim of the REACH Directive is to improve the protection of human health and the environment from the risks posed by chemicals, while promoting the competitiveness of the EU chemicals industry.

The **WEEE** (Waste Electrical and Electronic Equipment) Directive imposes specific collection, recycling, and recovery obligations on producers of electrical and electronic equipment (EEE).



**Why are these directives important?**

CE (Conformité Européenne, which translates to 'European Conformity') is a self-declaration or certification (depending on the product type as noted above) that shows that a product meets all the safety, health, and environmental requirements set by the European Union. It is mandatory for electronic products sold in Europe and means that a product can legally be sold anywhere within the EU and the European Economic Area. Products that do not have the CE Marking may not be imported or sold in the EU.

RoHS (Restriction of Hazardous Substances Directive) aims to reduce the amount of hazardous materials in electronic equipment. One of the key ways that manufacturers ensure compliance with RoHS is by having their products CE marked.

The REACH Directive will affect you if you are a manufacturer, importer, or user of chemicals. These entities will need to register their chemicals with the European Chemicals Agency (ECHA) and provide information on their properties and uses. This information will be used to assess the risks posed by chemicals and, where necessary, to develop measures to protect human health and the environment.

The WEEE Directive requires manufacturers Electrical and Electronic Equipment products to take back and recycle products at the end of their life. They must also provide customers with information on how to recycle their products.

RoHS and REACH are both a CE Marking Directive and so products not complying cannot be imported or sold in the EU. WEEE is not a CE Marking Directive however it may apply to products that do need to comply with CE requirements.

**How do manufacturers meet these requirements?**

Manufacturers can meet the requirements CE Marking, RoHS, REACH and WEEE in several ways. One way is to ensure that their products meet all the essential requirements of the relevant standards and regulations (directives). This includes meeting the safety, health, and environmental requirements set out in the CE Marking rules.

A typical path to compliance with the requirements is to get a compliance testing and certification from a notified third-party certification body like TUV SUD. This certification (notified) body will assess the product against all of the necessary safety, health, chemical property, and environmental requirements. They will also help ensure that the product is compliant with CE Marking requirements.

**What are the consequences of not complying with CE Marking?**

The consequences failing to comply with these regulations can be significant. First, the manufacturer may face fines or be banned from selling their products in the EU. Second, the product may be seized by customs officials. Finally, the product may not be covered by warranty or insurance.

This can be costly for the manufacturer in financial terms as well as reputation. In some cases, noncompliance may even lead to the recall of the product. So, it is important for manufacturers to make sure that their products meet all the necessary requirements before they put them on the market.

If a product that displays a CE Mark but is found not to have one, the manufacturer or distributor could be fined and face expensive product recall – so compliance is essential.

**How does CE Marking benefit consumers?**

CE Marking benefits consumers in several ways. One way is by ensuring that they are buying a product that meets all the necessary safety standards. This is important because it helps protect them from potentially dangerous products. Another way that CE Marking benefits consumers is by helping to protect the environment. This is because the directive requires companies to disclose information about the chemicals they use in their products, and it also sets limits on how much of these chemicals can be used. This helps to reduce the amount of harmful chemicals that are released into the environment.

Finally, CE Marking benefits consumers by making it easier for them to compare products. This is because CE Marking tells them that a product meets all the necessary safety, health, and environmental requirements. So they can be sure that they are buying a product that is safe and environmentally friendly.

**Conclusion**

**Overall, the directives in CE Marking like, RoHS, REACH, and WEEE directives are beneficial for both manufacturers and consumers. It helps manufactures demonstrate that their products are safe and compliant with all the necessary regulations. It makes it easier for consumers to compare products, so they can be sure they are buying a product that is safe to use and is environmentally friendly.**



## Get an overview on the requirements for electrical and electronic products for more than 32 countries and regions.

For more information on the regulatory requirements for electrical and electronic products throughout the world, download our eBook, “*Quick Access to Global Markets*”.

The eBook gives valuable information on regulatory agencies, conformity requirements, application guidelines and product categories for more than 32 countries across the globe. This is a guide on all you need to know about regulatory requirements in key markets, packed with tips from the experts and how TÜV SÜD can help.

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