Conformity Assessment of Equipment according to ATEX/IECEx Directives

Easy approach to approvals – benefit from a global partner for the certification of your equipment

MARKET ACCESS MADE EASY

Equipment and protective systems intended for use in potentially explosive atmospheres must comply with a range of regulations, standards and directives before they can be placed into the market. As a manufacturer, you are responsible for the conformity assessment and for obtaining the certification required in the country your equipment will be used in.

The European Union (EU) Directive 2014/34/EU, commonly called "ATEX", covers electrical and non-electrical equipment used in potentially explosive atmospheres. It relates to all equipment, protective systems, safety devices, controlling devices, regulating devices, and components – which must comply with essential health and safety requirements.

Compliance with the ATEX Directive is mandatory. Manufacturers are responsible for meeting the general requirements of Annex II by applying all relevant standards based on the design and "protection methods" of the product. Proof of the compliance with this directive is the Ex-mark or Ex-proof. Access to North American markets is also subject to appropriate approvals in accordance with equipment safety requirements. These include Underwriters Laboratories (UL), National Electrical Code (NEC), and the International Electrotechnical Commission (IEC) system for certification to Standards relating to Equipment for use in Explosive Atmospheres (IECEx System). Many other countries accept IEC Standards and European Standards or have adapted them as national standards.

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TÜVRheinland®
Precisely Right.

Manufacturers have to consider these requirements. Our experts can help you to comply with ATEX directive and meet international requirements.

BENEFIT FROM A GLOBAL PARTNER

TÜV Rheinland also supports manufacturers who want to sell their products in other countries such as Japan, the UK or Korea. Based on an IECEx-report and certificate or an ATEX certificate issued by TÜV Rheinland, the respective local certificate can be issued (JPEx, UKCA, KOSHA, etc.). By ensuring that your equipment is certified, we help you to gain easier access to the respective market. This reduces your Time-to-Market and makes trade more cost effective.

In conjunction with the accredited certification body (Notified Body according to the ATEX Directive and ExCB according to the IECEx Scheme) and the associated accredited testing laboratory, we are your ideal partner for testing and certification of your equipment used in potentially explosive areas.

Your benefits at a Glance.

WITH OUR COMPREHENSIVE SOLUTIONS FOR EXPLOSION PROTECTION YOU CAN:

- Ensure product safety and compliance with occupational health and safety requirements worldwide.
- Reach full compliance and certification prior to product placement.
- Gain competitive advantage and greater market access with certification marks from an international Notified Body.
- Access a common shared-networked database, reducing waiting time for documents to be transferred between agencies through conventional methods.
- Significantly reduce approval time and cost by using harmonized standards and common test protocols.

Our Comprehensive Services.

DESIGN PHASE

During the design phase we can provide:

- Identification of all applicable standards
- Support in choosing the right approval process
- Training and exchange of knowledge with our experts
- Design verification, including explosion risk-related analysis, assistance in defining equipment groups and categories, drawings, equipment specifications and design codes
- Type approval and certification

MANUFACTURING PHASE

During the manufacturing phase, we can provide:

- Testing of products, pre-products, components and assemblies
- Material testing and production process testing
- Feasibility and usability studies

More Information?

PLEASE CONTACT US.

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