

**Notified Body
1019 (ATEX)**



Certification of protective systems intended for use in potentially explosive atmospheres

VVUU, a.s. is the Notified Body 1019 for the conformity assessment of protective systems intended for use in potentially explosive atmospheres (ATEX). It is authorized to carry out conformity assessment activities pursuant to Government Regulation No. 116/2016 Coll., transposing Directive 2014/34/EU of the European Parliament and of the Council on the harmonisation of the laws of the Member States relating to equipment and protective systems intended for use in potentially explosive atmospheres.

For manufacturers of protective systems designed for use in potentially explosive atmospheres, we offer the comprehensive certification of their products before they are placed on the EU market. The activities of the Notified Body VVUU, a.s. build on the services of an accredited testing laboratory, which offers accredited tests of protective systems in a fully equipped testing center with a wide range of test vessels ranging from 0.5 m³ to 60 m³.

Types of protection systems for conformity assessment

EN 14373	explosion suppression systems (automatic high rate discharge suppressor or HRD systems)
EN 14797	explosion venting device (bursting panel device, explosion doors or flaps, relief valves)
EN 16009	flameless explosion venting devices (mesh, ceramic, ribbon devices for flameless venting)
EN 14460	explosion resistant equipment (filters, cyclones, redler conveyors, elevators, dryers and other explosion-proof equipment)
EN 16447	explosion isolation flap valves
EN 15089	explosion isolation systems (rotary valve, float valves, quick-acting slide valves, fire extinguishing barriers)

What is needed to start the certification process?

- general description of the product
- conceptual design, manufacturing drawings and schemes of components, sub-assemblies, circuits, etc.
- descriptions and explanations necessary for understanding of those drawings and schemes and the operation of the product
- list of harmonised standards applied in full or in part
- description of the solutions chosen adopted to meet the essential health and safety requirements, including a list of other relevant technical specifications applied
- results of design calculations, examinations carried out, etc.
- test reports
- analysis and assessment of the risk(s)
- safety instructions manual (preliminary)
- design of the marking of the protective system and design of the marking label

Procedure for the certification of EU-type examination (MODULE B)

- the application for conformity assessment and the required technical documentation and its examination
- proposal for the certification process including the tests necessary for issuing the certificate, subsequent approval
- supply of samples
- conducting tests, issuing test reports
- preparation of an evaluation report
- **in the case of COMPLIANCE – issuing an EU-type examination certificate**
- **subsequent the conformity assessment according to Module D or Module F**

MODULE D - conformity to type based on the quality assurance of the production process

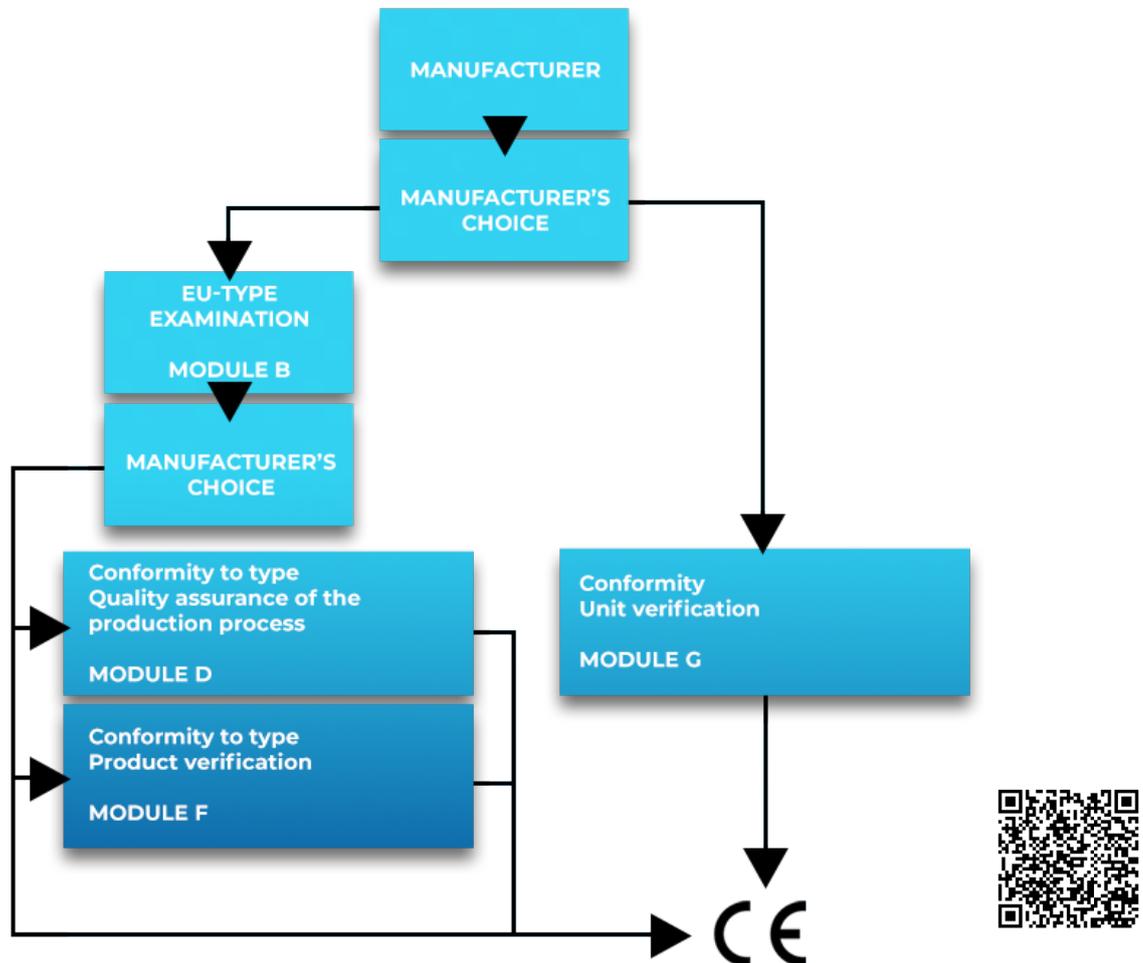
- assessment and surveillance of the quality control system used by the manufacturer to ensure the conformity of its products with the type described in the EU-type examination certificate. The audit shall include an assessment visit to the manufacturer’s premises

MODULE F - conformity to type based on product verification

- examinations and tests to verify the conformity of products with the approved type described in the EU-type examination certificate and relevant legislation

Procedure for the certification of each individual product (MODULE G)

- the application for conformity assessment and the required technical documentation and its examination
- proposal for the certification process including the tests necessary for issuing the certificate, subsequent approval
- supply of samples
- conducting tests, issuing test reports
- preparation of an evaluation report
- **in the case of COMPLIANCE – issuing a certificate of conformity**





Seminars and educational activities

Our work in the field includes the organization of regular seminars that focus on the danger of explosion of flammable gases, flammable liquid vapors and combustible dust, and on eliminating the risk of explosion in industrial plants.

As part of these seminars, we conduct demonstrations of the burning and explosion of combustible dust. We are ready to offer you our professional experience and will be glad to show you what combustible dust can do.



Engineering, analysis and assessments in operational and process safety. Comprehensive services and solutions in explosion prevention and protecting industrial operations. Our team of risk analysis experts is ready to consult and address your needs and requirements in the explosion protection document, external influence identification protocols, and in undertaking a risk analysis of electrical and non-electrical equipment.



The testing laboratory VVUU, a.s., No. 1025, is accredited by the Czech Institute for Accreditation according to EN ISO/IEC 17025:2018 for tests of flammability, explosion protection and protective systems, flow, dustiness and technical acoustics, explosives and blasting equipment, explosiveness of flammable dust, PPE and mining machinery.

VVUU has been assessing and defining fire and explosion risks for more than 70 years. VVUU, a.s. is a market leader, a company with modern and complex laboratory, testing and development facilities.

Ensuring industry safety is the clearly defined direction of the company's core activity. VVUU offers its services to all companies at risk of industrial accidents, explosions or fires.



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