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IECEx PUBLICATION

IEC System for Certification to Standards Relating to Equipment for Use in Explosive Atmospheres (IECEx System)

Rules and guidance for making applications for and use of IECEx conformity mark, IECEx 04

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IECEx PUBLICATION

IEC System for Certification to Standards Relating to Equipment for Use in Explosive Atmospheres (IECEx System)

Rules and guidance for making applications for and use of IECEx conformity mark, IECEx 04

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FOREWORD

This document has been prepared to provide rules and guidance for applicants wishing to gain IECEx conformity mark licenses (e.g. manufacturers), as well as guidance on the use of the marks on ~~products~~ equipment and packaging and other material. It shows the steps and processes required for manufacturers to gain and use an IECEx conformity mark license.

The IECEx Publication IECEx 01B defines the rules and provides guidance for the use of the IECEx logo.

Also it has been prepared to assist in the understanding that while technically rigorous, the process of achieving an IECEx conformity mark license is rather straightforward.

The details of the rules and process are given in other IECEx documents available from the IECEx website or the IECEx Secretariat.

This redline version of IECEx 04A highlights the changes made to the previous edition. A vertical bar appears in the margin wherever a change has been made. Additions are in green text, deletions are in strikethrough red text.

Document history

Date	Summary
July 2008	Original issue (edition 1.0)
November 2013	Edition 2.0 includes details regarding the use of the IECEx conformity mark that have been transferred from IECEx 01B edition 1.0 (Reference = ExMC/868/CD)
February 2021	Edition 3.0 issued to reflect the new approach to the IECEx conformity mark licensing scheme with document ExMC/1624/DV approved by the IECEx management committee during the 2020 ExMC Meeting

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Rules and guidance for making applications for and use of IECEx conformity mark, IECEx 04

1 Overview of the IECEx scheme

1.1 General

The IECEx ~~Scheme is the System~~ mark license scheme operates as part of the IEC System for ~~Conformity Assessment~~ Certification to Standards Relating to Equipment for Use in Explosive Atmospheres, as provided for in accordance with ~~Article 2 of the IEC Statutes and Rules, 2001 edition (incorporating amendments approved by Council in 2004 and 2005~~ the IECEx Basic Rules (IEC Harmonized Basic Rules, IEC CA 01 and IECEx Supplement, IECEx 01-S).

The IECEx System facilitates the operation of certification ~~programs~~ schemes in strict accordance with the IECEx ~~Scheme~~ System Basic Rules, IECEx 01, as approved by the IEC Conformity Assessment Board (CAB). The IECEx, through the IECEx management committee (ExMC) approves the appointment of certification bodies that may operate in the IECEx schemes. These certification bodies are known as ExCBs and take the sole decision when issuing certificates of conformity (CoCs) under the IECEx schemes, e.g. IECEx certified equipment scheme (IECEx 02 scheme).

While this document sets out the rules and guidance on use of the IECEx mark for equipment marking purposes, use of the IECEx trademark for other purposes can be found in IECEx 01B.

1.2 Objective

The objective of the IECEx ~~Certified Equipment Scheme~~ certification schemes is to facilitate international trade in equipment and services associated with equipment ~~intended~~ for use in explosive atmospheres (referred to as Ex equipment) and services related to that industry. The IECEx certification schemes are voluntary schemes intended to facilitate global trade as follows:

- Reducing testing and certification costs to manufacturer
- Reducing barriers to entry in to established and emerging market places
- Reduced time to market
- Providing international confidence in the assessment process of Ex ~~products~~ equipment and services
- Providing one international database listing of all issued reports, certificates and licenses

~~The final objective of the IECEx System is world-wide acceptance of one standard, one certificate and one mark.~~

1.3 Need for IECEx conformity mark

While the IECEx certificates of conformity (CoCs), issued by ExCBs, provide evidence of conformity, there is a need to display such conformance through the use of an "IECEx conformity mark".

The use of marks on ~~products~~ equipment and packaging and other material, to demonstrate conformity is widespread. The IECEx conformity mark is a single global mark that is intended to negate the need for separate individual marks being used. The growing industry support and use of the IECEx System has fuelled the demand for an international mark in this field.

The Ex mark provides greater assurance and ultimately enhanced confidence for governments, safety regulators, customers and industry that the equipment being operated, repaired or supplied for use in explosive atmospheres meets the world's most respected and vigorous safety standards as established by the IEC.

Gaining an IECEx conformity mark license and using the mark on ~~products~~ equipment and packaging and other material demonstrates the following to users and consumers:

- That the marked ~~products~~ equipment comply with the requirements of the relevant IEC Standard(s) without any national differences and/or essential differences in requirements (EDRs), and comply with other IECEx recognized normative documents that have been approved by the IECEx management committee
- That the manufacturer is operating a dedicated quality management system, meeting the specific IECEx requirements
- That the manufacturer is under on-going surveillance by an internationally assessed and recognized IECEx certification body (ExCB)

As proof of this achievement the international IECEx conformity mark licensing schedule is on FULL public display via the IECEx website www.iecex.com.

1.4 Voluntary system

IECEx conformity mark license ~~System~~ scheme like the IECEx certified equipment scheme is not mandatory and is a voluntary marking system. As such manufacturers may elect to mark their entire Ex ~~Product~~ equipment range provided the manufacturer holds a valid IECEx certificate of conformity (CoC) for each equipment. ~~following conditions are met:~~

- ~~The Manufacturer holds a valid IECEx Certificate of Conformity (CoC) for each and every product~~
- ~~The Manufacturer holds an IECEx Conformity Mark License, with those CoC's listed in the Mark License Schedule and where the IECEx CoC and IECEx Conformity Mark License has been issued by the same ExCB~~

Where valid IECEx CoCs have been issued by different ExCBs over an ~~product~~ equipment range, an IECEx conformity mark license needs to be obtained from ~~each of the ExCB's where the IECEx CoC's have been issued by the ExCB~~ the ExCB conducting surveillance audits for the IECEx CoCs in the IECEx 02 certified equipment scheme. Issued mark license schedules ~~shall only~~ cover ~~product~~ equipment IECEx CoCs issued by ~~the issuing~~ any ExCBs.

1.5 Owner of the mark

The IEC is not a certifier (i.e. like other third-party notified bodies PTB, TUV, CESI, SIRA, etc.). The IEC owns the mark and authorizes approved IECEx certification bodies such as those listed on the IECEx website the right to issue the mark licenses to qualified manufacturers meeting the IECEx requirements.

2 Rules and procedures for the licensing system

The IECEx conformity mark licensing ~~System Regulations~~ scheme rules, document IECEx 04, and operational documents OD 422 and OD ~~023~~ 423 can be found on the IECEx website www.iecex.com.
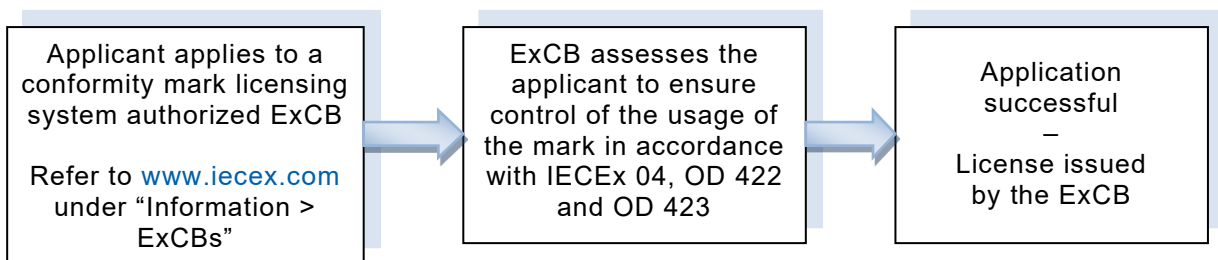
A full and up-to-date listing of ExCBs approved to operate the IECEx conformity mark licensing ~~System~~ scheme ~~under the IECEx scheme~~ is maintained on the IECEx website www.iecex.com.

3 Application process

Applicant applies to a conformity mark licensing system authorized ExCB Refer to www.iecex.com under "Information > ExCBs"	→	ExCB assesses the applicant to ensure control of the usage of the mark in accordance with IECEx 04, OD 422 and OD 423	→	Application successful – License issued by the ExCB

Applications for an IECEx conformity mark license, under the IECEx conformity mark licensing System scheme, are lodged directly with IECEx certification bodies (ExCBs) whom themselves have successfully undertaken the IECEx peer assessment programme for acceptance into the IECEx System 02 certified equipment scheme.

4 Making an application

The application for IECEx conformity mark license begins with manufacturers contacting the ExCB that is responsible for issuing the IECEx quality audit report (QAR) as required by the IECEx rules and IECEx 04 OD 422. A special form may not be necessary, but the following information will generally be required by the ExCB:

- Letter formally requesting an IECEx conformity mark license

- Exact details of the nominated products equipment (including valid IECEx certificate of conformity numbers) to be covered by the license

- Exact details on how each nominated ~~product~~ equipment is to be marked with the mark; including documentation, packaging and promotional material as well as usage in catalogues and on websites

- Demonstration that the manufacturer's quality management system details how they protect the use of the IECEx mark, such as:

  – A policy that the IECEx mark shall only be used and associated with Ex ~~products~~ equipment covered by an IECEx certificate of conformity, listed on the IECEx mark license schedule and in accordance with IECEx rules and operational documents (e.g. IECEx 04, OD 422 and OD ~~023~~ 423)

  – Defined procedures for the design and release of promotional material, including websites to ensure the above policy is maintained and an indication of which position within the organization that shall have this responsibility and authority

- The manufacturer shall ensure that all requirements of the IECEx conformity mark licensing ~~System~~ scheme rules and procedures have been met

The ExCB will estimate the time and cost to complete the license application.

Upon acceptance of the application, the ExCB will review the nominated IECEx CoCs for validity.

Upon a successful review of the nominated IECEx CoCs the ExCB will undertake the assessment and audit of the applicant's procedures for compliance with the IECEx requirements. This may be conducted as part of a routine surveillance audit, required for maintaining IECEx CoCs to be current.

If the audit of the applicant's procedures is successful, the ExCB will conduct an assessment and audit of the applicant's proposed design and use of the IECEx conformity mark.

Upon a successful application the license is registered on the IECEx website and the applicant is informed of the license being issued.

5   IECEx conformity mark

5.1   Master symbol for photographic reproduction

The IECEx conformity mark as shown in Figure 1 is a single global mark that is intended to identify that Ex equipment bearing this mark are covered by an IECEx CoC. The growing industry support and use of the IECEx schemes has fuelled the demand for an international mark in this field.

The IEC is the legal owner of the mark and authorizes approved IECEx certification bodies (ExCBs) such as those listed on the IECEx website, the right to issue the mark licenses to qualified manufacturers meeting the IECEx requirements.

The IECEx conformity mark provides greater assurance and ultimately enhanced confidence for governments, safety regulators, customers, industry and end users that the equipment being operated, repaired or supplied for use in explosive atmospheres meets the world's most respected and vigorous safety standards as established by the IEC.

~~Notes:~~

~~1.   The dotted line around the logo does not form part of the Logo. It only indicates that the two elements are used together.~~
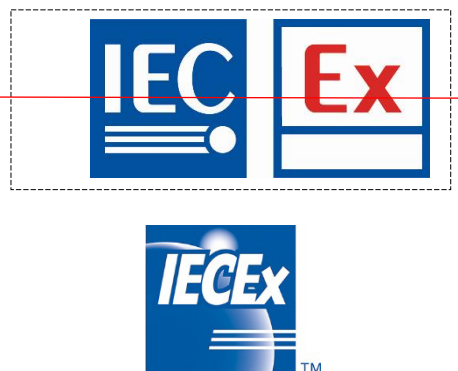
Figure 1 – IECEx conformity mark

~~The box under the "Ex" symbol is for the License number which includes the identifier code of the ExCB who has delivered the IECEx Conformity Mark and this clearly indicates the difference with the IECEx logo which does not include such a feature. The IECEx Conformity Mark is valid only when the License number is inserted.~~

~~An example of the License number is as follows: XXX 001 where XXX is the ExCB Identifier code and 001 is a sequential number which indicates the number of Licenses issued by the ExCB.~~

The validity of the mark ~~and License Code~~ license can be verified by visiting the IECEx website www.iecex.com.

5.2 Proportional dimensions of the symbol

All reproductions of the IECEx conformity mark shall comply with the dimensional and colour proportions as determined by the IECEx management committee and specified by the ExCB issuing the IECEx conformity mark license.

~~The Mark shall have a minimum IEC logo text size of 2.5mm in height.~~

~~The Identification Code issued by the ExCB shall be placed in the box indicated in Figure1 and the Identification Code font shall be "Arial" with a minimum character (Text) size of 1mm in height.~~

5.3 Guidance for colours used in the mark

The colours used in the mark may be identified as follows:

a) For the web, presentations and JPEG images (RGB)

~~Red: Red 230   Green 48   Blue 39~~

Blue: Red 0   Green ~~91~~ 96 Blue ~~161~~ 169

Black: Red 0   Green 0   Blue 0

b) For printer, posters and TIFF images (CMYK and Pantone)

Where C, M, Y, and K are the percent values for the cyan, magenta, yellow, and black values of the colour.

~~Red: C 0   M 91   Y87   K 0   Pantone 032 CV~~

Blue: C 100   M 60   Y 0   K 6   Pantone 286 CV

Black: C 0   M 0   Y 0   K 106   Pantone Black

NOTE 1   Guidance on RGB colours may be found in IEC 61966-2-5, *Multimedia systems and equipment - Colour measurement and management - Part 2-5: Colour management - Optional RGB colour space – opRGB*.

NOTE 2   The information on colours CMYK comes from a variety of sources.

5.4　Available electronic formats

The mark is available in a variety of different electronic file formats including but not limited to EPS, PS, AI, JPG, TIFF, DWG and DXF. These are available from the IECEx conformity mark license issuing ExCBs.

5.5　Use of the mark

5.5.1　General

The mark shall only be placed on such ~~products~~ equipment, or their documentation, packaging and promotional material, which are covered by a valid IECEx certificate of conformity (CoC), as listed on the issued IECEx conformity mark license schedule.

The mark shall remain traceable at all times~~; the Identification Code shall appear with the IECEx Conformity Mark, wherever it is used~~, with the IECEx mark license holder responsible for being able to show traceability to equipment and services covered by IECEx certificates of conformity that are listed on the mark license schedule.

The mark shall not be used for any purpose other than to indicate that all the requirements of the mark licensing ~~System~~ scheme are being met.

All details of the usage and placement of the mark must be approved by the ExCB issuing the IECEx conformity mark license.

5.5.2　Use on product marking

- The mark shall, in principle, be placed on the product itself in close proximity to or as part of the IECEx certification marking (see below) or on a label directly affixed to the product. If this is not practical, due to size limitations, the mark may be placed on the product packaging, a label attached to the product, the instructions for use or other accompanying documentation.

- The mark may be enlarged or reduced arbitrarily in the same form and ratio, provided that the letters and identification code remain well legible, however, not smaller than 6 x ~~13~~ 7 mm.

- The colour of the mark is shown in Figure 1. Use of black or white and an appropriate transparent background colour is permitted provided that it is not less than 100% coverage of the total label marking and upon agreement by the ExCB issuing the IECEx conformity mark license. In all cases the mark shall remain well legible ~~(See Example in Figure 1)~~.

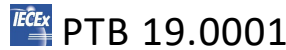- It is not permissible to modify the colour of the mark to a colour other than blue or black.

~~NOTE　The pictogram shown above is for illustrative purposes only.~~

~~Figure 1 – Example of a contrasting colour being used.~~

- It is permissible to use the mark as an integral element of the certificate reference number in the product marking code. The following example is provided:

Use of the following arrangement as an alternative to "IECEx PTB 19.0001"

IECEx PTB 19.0001

5.5.3   Use on documentation, packaging and promotional material

In addition to the provisions for use of the IECEx trademark, according to IECEx 01B, the following shall apply:

- The mark may be affixed to the ~~product~~ equipment packaging, or used in instructions for use or other accompanying documentation only where such ~~products~~ equipment are covered by a valid IECEx certificate of conformity (CoC) and listed on the IECEx conformity mark license schedule

- The mark may only be used in advertising where there is a clear association with the ~~products~~ equipment covered by a valid IECEx CoC and listed on the IECEx conformity mark license schedule

- The mark may only be used in catalogues and on websites where there is a clear association with the ~~products~~ equipment covered by a valid IECEx CoC and listed on the IECEx conformity mark license schedule

- It is not permissible to use the mark in catalogues or on websites where a list contains ~~products~~ equipment which are not covered by a valid IECEx CoC and listed on the IECEx conformity mark license schedule

- The mark may be enlarged or reduced arbitrarily in the same form and ratio, provided that the letters and identification code remain well legible, but not smaller than ~~10 × 21.5~~ 6 x 7 mm

- ~~It is not permissible to modify the colour of the Mark. Use of black and white is permitted~~

6   IECEx conformity mark license sample

NOTE   The pictograms shown above are for illustrative purposes only, the format may change without notice.

7   IECEx conformity mark licenses availability

The IECEx conformity mark licenses are available to view live on the IECEx online certificate system database at www.iecex.com.