



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Ex COMPONENT CERTIFICATE

Certificate No.: IECEx FTZU 19.0001U Issue No: 0 Certificate history:
Issue No. 0 (2019-05-30)

Status: Current Page 1 of 3

Date of Issue: 2019-05-30

Applicant: **Limatherm S.A.**
Tarnowska 1
34-600 Limanowa
Poland

Ex Component: **Universal two-compartments instrument housing models XD-ID80 and XD-ID80win**

This component is NOT intended to be used alone and requires additional consideration when incorporated into other equipment or systems for use in explosive atmospheres (refer to IEC 60079-0).

Type of Protection: **flameproof enclosure, dust enclosure**

Marking:
Ex db IIC Gb
Ex tb IIIC Db

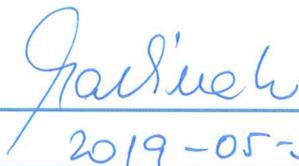
Approved for issue on behalf of the IECEx
Certification Body:

Dipl. Ing. Lukáš Martinák

Position:

Head of Certification Body

Signature:
(for printed version)


2019-05-30



Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

Fyzikálně technický zkušební ústav
(Physical -Technical Testing Institute)
Pikartska 7, 71607 Ostrava - Radvanice
Czech Republic





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Manufacturer: **Limatherm S.A.**
Tarnowska 1
34-600 Limanowa
Poland

Additional Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex Component covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The Ex Component and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2017 Edition:7.0	Explosive atmospheres - Part 0: Equipment - General requirements
IEC 60079-1 : 2007-04 Edition:6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-31 : 2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"

This Certificate does not indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the Ex Component listed has successfully met the examination and test requirements as recorded in

Test Report:

[CZ/FTZU/ExTR19.0001/00](#)

Quality Assessment Report:

[CZ/FTZU/QAR11.0004/05](#)





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Schedule

Ex Component(s) covered by this certificate is described below:

The Ex Component is an universal two-compartments empty enclosure for different electronics devices for working in hazardous areas with flammable gases, vapours and dusts.

The empty enclosure is made from pressure die-casting aluminium. The empty enclosure is coated by chemically resistant paint. The empty enclosure fulfills minimally IP6x.

The empty enclosure consists of one threaded cover for each compartment. The both covers are locked by hexagon socked screws. Each cover is sealed by "O" ring.

An earth terminal is placed on the body of empty enclosure.

The model XD-ID80win is designed with one inspection window made of glass. The model XD-ID80 is without window.

The empty enclosure is equipped with NPT and/or metric threaded holes:

The threaded hole D1: M20x1.5 or M24x1.5 or M25x1.5 or M27x2 or 1/2NPTmod or 3/4NPTmod.

The threaded hole D2 and D3: M20x1.5 and/or M24x1.5 and/or M25x1.5 and/or 1/2NPTmod and/or 3/4NPTmod.

The compartments can be electrically connected with a wire bushing which have to be separately IECEx certified. For flameproof joint parameters see the application manual, document N-L2643 dated 19.03.2019.

SCHEDULE OF LIMITATIONS:

1. The maximum number, size and position of threaded entries – see the application manual - document N-L2643 dated 19.03.2019.
2. A service temperature range according to model:
XD-ID80: -40°C to +100°C,
XD-ID80win: -40°C to +85°C.
3. The empty enclosure can be used for electrical equipment designed for ambient temperatures not exceed range -40°C to +85°C .
4. An apparatus installed inside of the empty enclosure can has any lay-out, which ensures, that in any cross-section area will be at least 40% of area free.
5. A circuit breakers or contactors containing oil filling are not allowed to be installed inside of the empty enclosure.
6. The empty enclosure shall be installed to avoid a risk from propagating brush discharges for application in explosive dust atmosphere.
7. The empty enclosure was verified by over pressure static test 55 bars / 10 s. The measured maximum reference pressure was 11 bars.

