



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

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

Ex COMPONENT CERTIFICATE

Certificate No.: IECEx FTZU 09.0031U

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Certificate history:

Status: Current

Issue No: 5

Issue 4 (2016-05-27)

Issue 3 (2013-07-17)

Issue 2 (2011-11-04)

Issue 1 (2011-01-06)

Issue 0 (2009-11-19)

Date of Issue: 2021-04-30

Applicant: LIMATHERM, S.A.
Ul. Tarnowska 1
34 600 Limanowa
Poland

Ex Component: Flameproof universal box XD-D120..., XD-D120win..., XDE-D120..., XDE-D120win..., XD-DR120win, XD-MDR120win

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 "d", increased safety "e", protection by enclosure "t"

Marking: Ex db IIC Gb
Ex db eb IIC Gb
Ex tb IIIC Db

Approved for issue on behalf of the IECEx
Certification Body:

Dipl. Ing. Lukáš Martinák

Position:

Head of the Certification Body

Signature:
(for printed version)

Date:

Signature
2021-04-30



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 www.iecex.com or use of this QR Code.



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.**
Ul. Tarnowska 1
34 600 Limanowa
Poland

Additional
manufacturing
locations:

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 products 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 equipment 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 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

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

TEST & ASSESSMENT REPORTS:

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

Test Reports:

CZ/FTZU/ExTR09.0031/00
CZ/FTZU/ExTR09.0031/03

CZ/FTZU/ExTR09.0031/01
CZ/FTZU/ExTR09.0031/04

CZ/FTZU/ExTR09.0031/02
CZ/FTZU/ExTR09.0031/05

Quality Assessment Report:

CZ/FTZU/QAR11.0004/07





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

The product is empty instrument enclosure and it is certified as an Ex component.

Universal one-compartment instrument housing XD-D120..., XD-D120win..., XD-DR120win, XD-MDR120win, respectively XDE-D120... or XDE-D120win... series are foreseen to accommodate different electronics devices for working in hazardous areas with flammable gases, vapours and dusts.

The model XD-D120** serie has both of the chambers (instrument and terminal) designed as a flameproof construction, model XDE-D120** serie has the instrument housing designed as flameproof construction "Ex db" and the terminal box is designed as increase safety "Ex eb" construction.

The body and covers are made of aluminium pressure die-casting (Mg<6%). The covers are fixed to the body by thread M120x2. The covers are sealed by "O" ring made of silicon rubber. The covers are locked by hex socketed screw.

The cover of instrument chamber is alternatively designed with inspection window made of floated glass. An earth terminal is placed in and on the body of enclosure.

The threaded hole D5, D4 D3, D2 for flameproof cable gland M20x1,5, M24x1,5, M25x1,5, 1/2"NPTmod or 3/4"NPTmod are prepared on the body of enclosure.

The threaded hole D1 is for processing connection M20x1.5, M24x1.5, M25x1.5, 1/2"NPTmod, 3/4"NPTmod 1NPTmod.

The enclosure is coated by chemically resistant epoxy or polyurethane paint.

The instruction for use see Application manual - see document N-L3795 dated 14.01.2021 and N-L4264 dated 21.01.2021.

Ex marking of the variants:

Ex db IIC Gb - for type XD-D...; XD-DR120win; XD-MDR120win

Ex db eb IIC Gb - for type XDE-D...

SCHEDULE OF LIMITATIONS:

1. Service temperature range for type of housing and used sealing ring:

-40°C to +150°C for XD-D120; XDE-D120;

-40°C to +85°C for XD-D120win; XDE-D120win; XD-DR120win; XD-MDR120win.

2. The empty enclosure is applicable for electrical apparatus, designed for ambient temperature not exceeding following range:

a) XD-D120; XDE-D120 from -40°C to +150°C;

b) XD-D120win; XDE-D120win; XD-DR120win; XD-MDR120win from -40°C to +60°C ..

3. Max. numbers of holes, their size and position are given in Application manual. N-L3795 and N-L4264.

4. Devices installed inside of enclosure can have any lay-out, which ensures, that in any cross-section area will be least 40% (group IIC) of area free.

5. For information on the dimensions of the flameproof joints the manufacturer shall be contacted.

6. The housing type XDE-D120... shall be equipped by Ex- wire bushing and the new-created cylindrical joint shall be verified according to the IEC 60079-1:2014.

7. Appropriate certify cable glands for direct entry has to be used.

8. The overpressure static test was made with 50 bar (the routine tests is not necessary to do).

9. Component must be installed to avoid a risk from propagating brush discharges for application in explosive dust atmosphere.

10. It is not allowed to install circuit breaker or contactors with oil filling and rotating apparatus producing turbulence inside of the enclosure.





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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Upgrade to the latest edition of standards IEC 60079-0:2017, Ed. 7 and IEC 60079-7:2017, Ed. 5.1.

Modification of the "Schedule of Limitations."

