



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 11.0012U** Page 1 of 4 **Certificate history:**
Status: **Current** Issue No: 3 Issue 2 (2018-10-16)
Date of Issue: **2023-10-31** Issue 1 (2013-10-30)
Applicant: **Limatherm S.A.** Issue 0 (2011-12-07)
ul. Tarnowska 1
34-600 Limanowa
Poland
Ex Component: **Universal instrument housing type XD-120, XD-120win, XD-120L, XD-120Lwin, XD-120Lwin10, XD-120H, XD-120Hwin**
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", Protection by enclosure "t"**
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 the Certification Body

Signature:
(for printed version)

Date:
(for printed version)

2023-10-31



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)
Pikartská 7, 71607 Ostrava - Radvanice
Czech Republic





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

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

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

IEC 60079-31:2022 Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"
Edition:3.0

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 component listed has successfully met the examination and test requirements as recorded in:

Test Reports:

[CZ/FTZU/ExTR11.0012/00](#)
[CZ/FTZU/ExTR11.0012/03](#)

[CZ/FTZU/ExTR11.0012/01](#)

[CZ/FTZU/ExTR11.0012/02](#)

Quality Assessment Report:

[CZ/FTZU/QAR11.0004/10](#)





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

The product is an Ex component. Universal instrument housing is foreseen to accommodate different electronics devices for working in hazardous areas with flammable gases, vapours and dusts. The enclosure and cover are made of aluminium pressure die-casting (Mg < 6 %). The cover is fixed to the body by thread M120x2. The cover is sealed by "O" ring VMQ or FKM rubber. The cover is locked by screw with hex socket using hex spanner. The cover is alternatively designed with inspection window made of floated glass. An earth terminal is placed on the body of enclosure.

SCHEDULE OF LIMITATIONS:

- 1) For information about dimension of flameproof joints it is necessary to contact manufacturer of component.
- 2) Max. number, size and position of apertures – see Application manual. N-L3858 dated 04.09.2023.
- 3) An apparatus installed inside of this Ex component can have any layout, which ensures, that in any cross-section area shall be at least 40 % of area free.
- 4) Service temperature according to housing type and used sealing ring:
XD-120:
-40 °C to +150 °C - VMQ rubber
-20 °C to +200 °C - FKM rubber
XD-120win:
-40 °C to +85 °C - VMQ rubber
-20 °C to +85 °C - FKM rubber
- 5) The empty enclosure is applicable for electrical apparatus, designed for ambient temperature not exceeding following range:
 - a) XD-120 from -40 °C to +200 °C;
 - b) XD-120win from -40 °C to +85 °C .
- 6) The enclosure may be equipped with Ex-equipment cable glands or Ex- equipment blanking elements with type of Ex-protection according to Ex marking in certificate and with minimum IP code IP 6X.
- 7) The empty enclosure must be installed to avoid a risk from propagating brush discharges for application in explosive dust atmosphere.
- 8) It is not allowed to install circuit breaker or contactors with oil filling and rotating apparatus producing turbulence inside of the enclosure.
- 9) The flameproof enclosure was tested by over pressure static test with 52 bars (4x Ref.Pressure) .





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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

- 1) Verification according to the newest standard IEC 60079-31:2022, 3rd Edition .
- 2) Revision of the "Schedule of Limitations".

