



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 09.0028U**

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Certificate history:

Status: **Current**

Issue No: 4

Issue 3 (2017-08-29)

Issue 2 (2012-10-29)

Issue 1 (2011-11-04)

Issue 0 (2009-10-20)

Date of Issue: **2022-08-19**

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

Ex Component: **Empty flameproof universal box XD-JB85, XD-JB85win, XD-JB85I, XD-JB85Iwin**

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 "db", protection by enclosure "tb"**

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)

J. Martinák
2022-08-19



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 60079-1:2014-06 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

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/ExTR09.0028/00
CZ/FTZU/ExTR09.0028/03

CZ/FTZU/ExTR09.0028/01

CZ/FTZU/ExTR09.0028/02

Quality Assessment Report:

CZ/FTZU/QAR11.0004/09





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

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

The Connection head type XD-JB85, XD-JB85win, XD-JB85I and XD-JB85Iwin is intended to accommodate different electronics devices for working in hazardous areas with flammable gases, vapours and dusts.

The type XD-JB85I and XD-JB85Iwin have increased length of three bosses for inner mounting holes. This enables vary spacing of mounting holes within diameter 70 to 58 mm. The body and cover of the product are made of aluminium pressure die-casting (Mg<6%). The cover is locked by screw with hex socked using hex spanner. The cover is fixed to the body by thread M85x2. Each cover is sealed by "O" ring. The cover is alternatively designed with inspection window made of floated glass. The earth terminals are placed inside and outside of the body of enclosure. Each type of parallel threads: M20x1.5, M24x1.5, M25x1.5, M27x2 is adapted to create explosion proof joint. Also taper threads 1/2NPTmod. or 3/4 NPTmod. are modified according to standard OIT-17/03 and can create flameproof joint with threaded male part with standard cutting tolerance. mod = modified to meet standards IEC 60079-1, CSA C22.2 No.5 and FM 3615. Openings can be used for mounting sensor (i.e level, flow sensor), thermowell or can be used to equip it with various certified flameproof cable glands, fill sealing fittings, flexible couplings or pipes. The enclosure is coated by chemically resistant paint. The unused holes can be blinded with a certified stopping plug or are not prepared.

See Application manual No. N-L3045 dated 16.02.2022.

SCHEDULE OF LIMITATIONS:

1. Service temperature range for type of housing and used sealing ring:
XD-JB85, XD-JB85I:
-40°C to +100°C ("O" ring, Tefabloc TPE rubber)
-40°C to +150°C ("O" ring, VMQ-silicon rubber)
-20°C to +200°C ("O" ring, FKM-VR1 rubber)

XD-JB85win, XD-JB85Iwin:
-40°C to +85°C ("O" ring, Tefabloc TPE rubber, "O" ring, VMQ-silicon rubber)
-20°C to +85°C ("O" ring, FKM-VR1 rubber)
2. The empty enclosure is applicable for electrical apparatus, designed for ambient temperature not exceeding following range:
a) XD-JB85, XD-JB85I from -40°C to +200°C;
b) XD-JB85win, XD-JB85Iwin from -40°C to +85°C.
3. Max. numbers of holes, their size and position are given in Application manual. N-L3045.
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. Appropriate certify cable glands and blanking elements for direct entry have to be used.
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.





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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 4:

1. Verification according to the newest standard IEC 60079-0:2017.
2. The "Schedule of Limitations" have been modified.

