



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 15.0037U**

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Certificate history:

Issue 0 (2015-12-16)

Status: **Current**

Issue No: 1

Date of Issue: 2021-02-12

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

Ex Component: Universal two-compartments instrument housing type XD-SID100, XD-SID100win, XD-SID100Lwin

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", dust protection by enclosure "tb"**

Marking:
Ex db I Mb
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)

Date:

2021-02-12



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 zkusební 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

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

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/ExTR15.0037/00](#)

[CZ/FTZU/ExTR15.0037/01](#)

Quality Assessment Report:

[CZ/FTZU/QAR11.0004/07](#)





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

The XD-SID100... series are designed to accommodate various electronic instruments or devices and electric power supply, working in hazardous areas.

The housing and cover are made of stainless steel and cover is fixed with thread M100x2 6H/6g which made a flameproof joint. The cover is eventually designed with a window. The housing includes two spaces separated by baffle with hole Ø22H8 for alternative using of Ex db conductor bushing.

The process opening D1 can be equipped by following threaded holes: M20x1,5; M24x1,5; M25x1,5; M27x2; 1/2NPTmod and 3/4NPTmod.

The conduit openings D2, D3 can be equipped by following threaded holes: M20x1,5; M24x1,5; M25x1,5; 1/2NPTmod and 3/4NPTmod. The unused holes can be blinded with a certified stopping plug.

Application manual see document N-L4321 dated 17.11.2020.

SCHEDULE OF LIMITATIONS:

1. Maximum number of the holes, their sizes and position are specified in Application manual N- L4321 dated 17.11.2020.
2. It is not allowed to install circuit breaker or contactors with oil filling and rotating apparatus producing turbulence inside of the enclosure.
3. For information on the dimensions of the flameproof joints the manufacturer shall be contacted.
4. The empty enclosure is applicable for electrical apparatus, designed for ambient temperature not exceeding following range:
 - a) XD-SID100 from -50°C to +200°C;
 - b) XD-SID100win and XD-SID100Lwin from -50°C to +60°C.
5. The apparatus installed inside of the enclosure can have any layout, ensuring more than 20% (Group I) and 40 % (Group IIC) of free cross-section.
6. Appropriate certify cable glands for direct entry has to be used.
7. If the Ex-conductor bushing is used, the new-created cylindrical joint has to be tested according to IEC 60079-1:2014, cl 15.
8. Component must be installed to avoid a risk from propagating brush discharges for application in explosive dust atmosphere.
9. Service temperature range for type of housing and used sealing ring:
 - a) XD- SID100: VMQ rubber: -50°C to +150°C; FKM rubber: -20°C to +200°C
 - b) XD- SID100win, XD-SIDLwin: VMQ rubber: -50°C to +85°C; FKM rubber: -20°C to +85°C
10. The enclosure was verified by over pressure static test 44 bars and 55 bars (manufacturer's request) / 10 s. The measured maximum reference pressure was 10.75 bars for Tamb=-50°C.





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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

1. Modification of the Schedule of Limitations.
2. Upgrade to the latest edition of standard IEC 60079-0:2017.

