



# 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](http://www.iecex.com)

### Ex COMPONENT CERTIFICATE

Certificate No.:	<b>IECEx FTZU 10.0019U</b>	Page 1 of 4	<u>Certificate history:</u> Issue 2 (2014-07-29) Issue 1 (2014-03-10) Issue 0 (2010-10-26)
Status:	<b>Current</b>	Issue No: 3	
Date of Issue:	2019-10-21		
Applicant:	<b>Limatherm, S.A.</b> ul. Tarnowska 1 34-600 Limanowa <b>Poland</b>		
Ex Component:	Universal two compartment instrument housing XD-ID100;XD-ID100win; XD-ID100H; XD-ID100Hwin		

*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 Ex d, Dust protection with enclosure Ex t**

Marking: Ex db IIC Gb  
Ex tb IIIC Db

Approved for issue on behalf of the IECEx  
Certification Body:

Dipl. Ing. Martin Zámorský

Position:

Deputy Director

Signature:  
(for printed version)

Date:

2019-10-21



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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](http://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

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/ExTR10.0019/00](#)

[CZ/FTZU/ExTR10.0019/01](#)

[CZ/FTZU/ExTR10.0019/02](#)

Quality Assessment Report:

[CZ/FTZU/QAR11.0004/06](#)





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

The Ex Component is a two-compartments instrument housing is foreseen to accommodate different electronics devices for working in hazardous areas with flammable gases, vapours and dusts.

The enclosure which consist of two compartments and cover are made of aluminium pressure die-casting (Mg<6%). The covers are locked by screw with hex socked using hex spanner.

An earth terminal is placed on the body of enclosure.

The covers are fixed to the body by thread M100x2. Each cover is sealed by "O" ring.

The cover is alternatively designed with inspection window made of floated glass.

The threaded hole D1: M20x1,5; M24x1,5; M25x1,5; M27x1,5; 1/2NPTmod;3/4NPTmod is prepared for thermowell sensor measuring insert .

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

The compartments shall be electrically connected with a wire bushing which have to be separately certified according to IECEx. Used cable glands have to be certified according to IECEx too.

For flameproof joint parameters see the application manual, document N-L2611 dated 19.07.2019 and N-L4150 dated 24.07.2019.

## SCHEDULE OF LIMITATIONS:

1. The maximum number, size and position of threaded entries – see the application manual - document N-L2611 dated 19.07.2019 and N-L4150 dated 24.07.2019.
2. A service temperature range according to model:  
XD-ID100(H): -40°C to +100°C  
XD-ID100(H+win), XD-IDAC: -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 for group IIC.
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 enclosure was verified by over pressure static test 40 bars / 10 ( reference pressure – 9.77 bars)





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**DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)**

Assessment according to the newest standards.

