



# IECEx Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com) **Ex COMPONENT CERTIFICATE**

Certificate No.: IECEx FTZU 10.0010U

Issue No: 3

Certificate history:

Status: **Current**

Page 1 of 4

Issue No. 3 (2019-09-17)

Date of Issue: **2019-09-17**

Issue No. 2 (2014-09-09)

Issue No. 1 (2011-11-04)

Issue No. 0 (2010-04-27)

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

Ex Component: **Universal instrument housing XD-SI; XD-SIwin, XD-SILwin**

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, dust protected enclosure**

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 the Certification Body

Signature:  
(for printed version)

Date:

  
2019-09-17



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 the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

Fyzikálně technický zkusební ústav  
(Physical -Technical Testing Institute)  
Pikartská 7, 71607 Ostrava - Radvanice  
Czech Republic





# IECEx Certificate of Conformity

Certificate No: IECEx FTZU 10.0010U

Issue No: 3

Date of Issue: 2019-09-17

Page 2 of 4

Manufacturer: LIMATHERM, S.A.  
ul. Tarnowska 1  
34-600 Limanowa  
Poland

Additional Manufacturing location(s):

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 Component 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 Ex 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 Edition:7.0	Explosive atmospheres - Part 0: Equipment - General requirements
IEC 60079-1 : 2014-06 Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-31 : 2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"

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

## TEST & ASSESSMENT REPORTS:

*A sample(s) of the Ex Component listed has successfully met the examination and test requirements as recorded in*

### Test Report:

[CZ/FTZU/ExTR10.0010/00](#)

[CZ/FTZU/ExTR10.0010/02](#)

### Quality Assessment Report:

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





# IECEx Certificate of Conformity

Certificate No: IECEx FTZU 10.0010U

Issue No: 3

Date of Issue: 2019-09-17

Page 3 of 4

## Schedule

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

The Ex Component is an universal empty enclosure for different electronics devices for working in hazardous areas with flammable gases, vapours and dusts.

The empty enclosure is made from stainless steel investment casting. The empty enclosure fullfils minimally IP6x.

The empty enclosure consists of one threaded cover. The cover is alternatively designed with inspection window made of floated glass.

The cover is locked by hexagon socked screw and sealed by "O" ring.

An earth terminal is placed on the body of empty enclosure.

The model XD-Slwin and XD-SILwin is designed with one inspection window made of glass. The model XD-SI is without window.

The empty enclosure is equipped with NPT and/or metric threaded holes:

The threaded hole D1: M20x1.5 or M24x1.5 or M25x1.5 or M27x2 or 1/2NPTmod or 3/4NPTmod.

The threaded hole D2 and D3: M20x1.5 and/or M24x1.5 and/or M25x1.5 and/or 1/2NPTmod and/or 3/4NPTmod.

For flameproof joint parameters see the application manual, document N-L3625 dated 15.07.2019.

### SCHEDULE OF LIMITATIONS:

1. The maximum number, size and position of threaded entries – see the application manual - document N-L3625 dated 15.07.2019.

2. A service temperature range according to model:

Housing type	Tserv.	
	VQM rubber	FKM rubber
XD- SI	-50°C to +150°C	-20°C to +200°C
XD- Slwin, XD-SILwin	-50°C to +85°C	-20°C to +85°C

3. The empty enclosure can be used for electrical equipment designed for ambient temperatures not exceed range -50°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 and 20% for group I.

5. A circuit breakers or contactors containing oil filling are not allowed to be installed inside of the empty enclosure.

6. The enclosure was verified by over pressure static test 41 bars / 10 s for XD-SI; XD-Slwin (reference pressure – 10.07 bars) and 34 bars for XD-SILwin (reference pressure - 8.32 bars).





# IECEx Certificate of Conformity

Certificate No: IECEx FTZU 10.0010U

Issue No: 3

Date of Issue: 2019-09-17

Page 4 of 4

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

Issue 3:

Assessment according to the newest standards and the marking update.

