

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

Certificate No.: IECEx FTZU 12.0017U Issue No: 1 Certificate history:
Status: Current Page 1 of 5 Issue No. 1 (2016-08-31)
Date of Issue: 2016-08-31 Issue No. 0 (2012-11-05)
Applicant: Limathem S.A.
ul. Tarnowska 1
34-600 Limanowa
Poland
Equipment: Universal instrument housing type XD-I, XD-Iwin, XD- ILwin, XD-IH, XD-
IHwin, XD-IC, XD-ICwin, XD-ICLwin, XD-ICH, XD-ICHwin
Optional accessory:
Type of Protection: Flameproof enclosure, Protection by enclosure "t"
Marking: Ex db IIC Gb
Ex tb IIIC Db

Approved for issue on behalf of the IECEx
Certification Body:

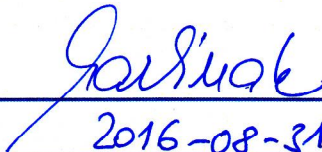

Dipl. Ing. Lukáš Martinák

Position:

Head of Certification Body

Signature:
(for printed version)

Date:

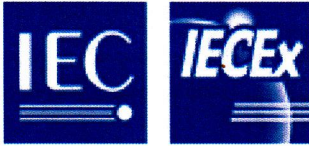

2016-08-31


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 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





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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 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 electrical apparatus 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 : 2011 Explosive atmospheres - Part 0: General requirements

Edition:6.0

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 electrical 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 Report:

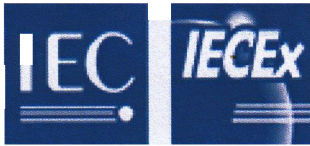
CZ/FTZU/ExTR12.0017/00

CZ/FTZU/ExTR12.0017/01

Quality Assessment Report:

CZ/FTZU/QAR11.0004/03





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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

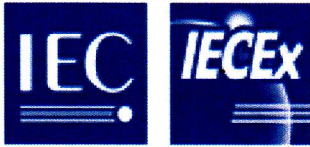
The equipment is certified as Ex component.

Universal instrument housing type D-I, XD-Iwin, XD- ILwin, XD-IH, XD-IHwin, XD-IC, XD-ICwin, XD-ICLwin, XD-ICH, XD-ICHwin 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 M100x2. The cover is sealed by "O" ring ELASTOSIL R701/50 (VMQ) or Fluoroelastomer VR1 (FKM) or Tefablock TO SI 431 60A (TPE). The cover is locked by screw with hex socked 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.

CONDITIONS OF CERTIFICATION: NO





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EQUIPMENT (continued):

"Conditions of Use" for Ex Component:

1. Tserv according to use seal:

TPE: -40+100/85°C – lower temperature for housing with sight glass

VMQ: -40+100/85°C – lower temperature for housing with sight glass

FKM: -20+200/85°C – lower temperature for housing with sight glass

2. Max.number, size and position of apertures – are given in Application manual N-L2237 dated 31.03.2016.

3. For information on the dimensions of the flameproof joints the manufacturer shall be contacted.

4. Apparatus installed inside of enclosure can has any lay-out, which ensures, that in any crossection area will be least 40% (group IIC) of area free.

5. The enclosure with Ex component certificate can be applicate only by assumption of filling requests of the standard IEC 60079-1:2014, cl. D.3.10.

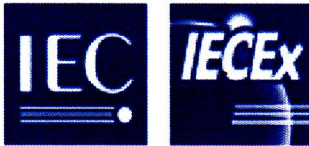
6. Appropriate certify cable glands for direct entry has to be used.

7. IP 68 max (h=1m).

8. The max.overpressure static test of housing: 50 bar/10s.

9. Max. power dissipation for temperature class, see ANNEX to IECEX Certificate No. IECEX FTZU 12.0017U Issue No.0.





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

Issue 1:

1. Modification of enclosure:

- increase wall thickness of base bottom to 6mm,
- removal of wall between D2 and D3 entries; for 3/4 NPTmod hole under thread increased to d=18mm,
- increase circlip thickness to 3mm.

2. Addition new variants of housing without lugs: XD-IC,XD-ICwin,XD-ICLwim XD-ICH and XD-ICHwin.

3. Upgrade to the latest editions of standards IEC 60079-1:2014, IEC 60079-31:2013.

4. The conditions for certification have been updated.

5. The marking has been modified.

