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

Ex COMPONENT CERTIFICATE

Certificate No.: IECEx FTZU 13.0026U

Issue No: 1

Certificate history:
Issue No. 1 (2019-09-17)
Issue No. 0 (2013-12-18)

Status: **Current**

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

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

Ex Component: **Universal instrument housing type XD- I80, XD-I80win, XD-I80C,XD-I80Cwin**

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 protection 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:

2019-09-17

FYZIKÁLNĚ TECHNICKÝ ZKUŠEBNÍ ÚSTAV, s.p. OSTRAVA-RADVANICE FTZÚ Ex

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.

Certificate issued by:

Fyzikalne technicky zkusebni ustav
(Physical -Technical Testing Institute)
Pikartska 7, 71607 Ostrava - Radvanice
Czech Republic

FTZÚ Ex

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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 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/ExTR13.0026/00 CZ/FTZU/ExTR13.0026/01

Quality Assessment Report:

CZ/FTZU/QAR11.0004/06

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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 pressure die-casting aluminium. The empty enclosure is coated by chemically resistant paint. 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-I80win and XD-I80Cwin is designed with one inspection window made of glass. The model XD-I80 and XD-I80C is without window.
The empty enclosure is equiped 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-L2525 dated 30.04.2019.

SCHEDULE OF LIMITATIONS:

1. The maximum number, size and position of threaded entries – see the application manual - document N-L2525 dated 30.04.2019.

2. A service temperature range according to model:
   XD-I80, XD-I80C: -40°C to +100°C,
   XD-I80win, XD-I80Cwin: -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 leas 40% of area free.

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 65 bars / 10 s. The measured maximum reference pressure was 6.56 bars.

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

Issue 1:

Assessment according to the newest standards and the marking update.

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