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 14.0003U	Issue No: 3	Certificate history:
			Issue No. 3 (2017-02-27)
Status:	**Current**	Page 1 of 5	Issue No. 2 (2016-05-30)
			Issue No. 1 (2016-01-27)
Date of Issue:	**2017-02-27**		Issue No. 0 (2014-02-21)

Applicant: **Limatherm Components Sp. z o.o.**
ul. Żelazna 5
41-506 Chorzów
Poland

Equipment: **Connection head type XD – A** series, Field transmitter housing XD – A**F… series**

Optional accessory:

Type of Protection: **Flameproof enclosure, dust protection by enclosure**

Marking: Ex db IIC Gb
Ex tb III C 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:

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

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Manufacturer:	**Limatherm Components Sp. z o.o.** ul. Żelazna 5 41-506 Chorzów **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 Edition:6.0	Explosive atmospheres - Part 0: 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 equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

CZ/FTZU/ExTR14.0003/03

Quality Assessment Report:

CZ/FTZU/QAR14.0004/02

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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

General product information:

The product is empty instrument enclosure and it is certified as an Ex component.
The product is designed to accommodate various electronic instruments for working in hazardous areas with flammable gases, vapours and dusts.

The housing and cover are made from aluminium pressure die-casting (Mg < 6%). The cover is sealed by sealing O-ring. The cover can be equipped by glass window and it is marked with 'win' behind the type marking.

There are three flameproof joints in the product type XD-A** series connection head (there are only first two flameproof joints applied for type XD-A**F... field transmitter housing):

1) The cover is fixed to the housing by threaded joint M80x1.5 6H.

2) The threaded holes for cable glands on the housing D2, D3: M20×1.5, 1/2NPTmod, 3/4NPTmod.

3) The cylindrical joint d1:
Ø6.0 (+0.04, -0.05), Ø6.1 H8, Ø8.1 H8, Ø8.0 (+0.1, +0.02), Ø9.6 H8, Ø10.1 H7, Ø10.0 (+0.1, +0.02), Ø12.1 H7, Ø12.8 H7, Ø15.1 H7
or
Ø13 is made for non flameproof joint sensor wires or
M16x1.5 6g is made for creating flameproof joints with screw bushing.

The threaded hole D1: M20×1.5, M24×1.5, M27×2, 1/2NPTmod, 3/4NPT mod, Rc1/2, Rc3/4, BSPT1/2, BSPT 3/4, G 1/2, G3/4, G 3/8, BSPP1/2, BSPP 3/4, BSPP3/8 is designed for process opening.

The taper NPT threads according to ANSI/ASME B1.20.1-1983 is executed with modification to meet simultaneously standards IEC 60079-1, EN 60079-1, CSA C22.2 No.5 and FM 3615.

See Application manual No. N-L2236 dated 05.12.2016

SPECIFIC CONDITIONS OF USE: NO

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EQUIPMENT (continued):

Schedule of limitations:

1. Max.number, size and position of apertures are given in Application manual N-L2236 dated 05.12.2016.

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

3. The enclosure with Ex component certificate shall be applicated only by assumption of filling requests of the standard IEC 60079-1, cl.D.3.10.

4. An appropriate certify cable glands for direct entry has to be used.

5. The process threaded joint D1 shall be verified according to EN 60079-31,cl. 5.1.2 for final installation as Ex equipment.

6. For maximum power dissipation – see Annex A.

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

Issue 3:

1) Completion of alternative using type taper threads Rc1/2, Rc3/4, BSPT1/2, BSPT 3/4 and cylindrical threads G 1/2, G3/4, G 3/8, BSPP1/2, BSPP 3/4, BSPP3/8 for threaded joint D1.

2) Modification of the Schedule of Limitations.

Annex:

Annex_A_IECEx_FTZU_14_0003_03.pdf

Annex A
to Certificate IECEx FTZU 14.0003U Issue No.3
Date: 27.02.2017

Max. power dissipation for temperature class:

Max. power dissipation				
T_{amb}	**Temperature class T6 85°C**	P (W) For all variety of enclosures position horizontally/vertically	**Temperature class T5 100°C**	P (W) For all variety of enclosures position horizontally/vertically
40°C	$\Delta T \leq 40$ K	13.5 / 10.0	$\Delta T \leq 55$ K	18.5 / 15.5
55°C	$\Delta T \leq 25$ K	7.5 / 6.0	$\Delta T \leq 40$ K	13.5 / 10.0
70°C	$\Delta T \leq 10$ K	2.8 / 1.9	$\Delta T \leq 25$ K	7.5 / 6.0
85°C	N.A.	--	$\Delta T \leq 10$ K	2.8 / 1.9