



## IECEX TEST REPORT COVER

ExTR Reference Number.....	CZ/ FTZU/ExTR 14.0003/03	
ExTR Free Reference Number .....	14 IECEx 0003/03	
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Date of issue .....	27.02.2017	
Ex Testing Laboratory (ExTL).....	Physical Technical Testing Institute, s.p	
Address .....	Pikartská 1337/7, 716 07 Ostrava-Radvanice, Czech Republic	
Ex Certification Body (ExCB).....	Physical Technical Testing Institute, s.p	
Address .....	Pikartská 1337/7, 716 07 Ostrava-Radvanice, Czech Republic	
Applicant's name.....	<b>Limatherm Components Sp. z o.o</b>	
Address .....	<b>ul. Źelazna 5, 41-506 Chorzów , Poland</b>	
Standards associated with this ExTR package .....	IEC 60079-0:2011, 6 <sup>th</sup> Edition IEC 60079-1:2014, 7 <sup>th</sup> Edition; IEC 60079-31:2013, 2 <sup>nd</sup> Edition	
Clauses considered .....	All clauses considered	
Related Amendments, Corrigenda or ISHs .....	<u>IEC 60079-0:2011/COR1:2012</u> <u>IEC 60079-0:2011/ISH1:2013</u> <u>IEC 60079-0:2011/COR2:2013</u> <u>IEC 60079-0:2011/ISH2:2014</u>	
Test item description.....	Instrument housing	
Model/type reference .....	<b>Connection head type XD – A** series</b> <b>Field transmitter housing XD – A**F... series</b>	
Code (e.g. Ex _ II_ T_).....	Ex db IIC Gb Ex tb IIIC Db	
Rating.....	without changes – see original certificate	

<b>ExTR Package Contents</b>
Assembled ExTR documents and Additional reference material:
IECEX Test Report Cover
IECEX Test Report Addendum CZ/FTZU/ExTR 14.0003/03

Manufacturer's name .....	<b>Limatherm Components Sp. z o.o</b>
Address .....	<b>ul. Źelazna 5, 41-506 Chorzów , Poland</b>
Trademark .....	<b>Limatherm Components Sp. z o.o</b>
Certificate No. (optional) .....	NA
QAR Reference No. (optional) .....	<b><u>CZ/FTZU/QAR14.0004/02</u></b>
<b>Particulars: Test item vs. Test requirements</b>	
Classification of installation and use .....	Stationary
Ingress protection .....	IP 68 max (h=1m)
Rated ambient temperature range (°C).....	-----
Rated service temperature range (°C) for Ex Components .....	<u>XD-A.. series:</u> -40°C to +100°C (TPE rubber) -50°C to +150°C (VMQ rubber) -20°C to +200°C (FKM rubber) <u>XD-A...win series</u> -40°C to +85°C (TPE rubber) -50°C to +85°C (VMQ rubber) -20°C to +85°C (FKM rubber)
<b>General remarks:</b>	
The test results presented in this ExTR package relate only to the item or product tested.	
<ul style="list-style-type: none"> <li>▪ "(See Attachment #)" refers to additional information appended to the ExTR package.</li> <li>▪ "(See appended table)" refers to a table appended to the ExTR package.</li> <li>▪ Throughout this ExTR package, a point is used as the decimal separator.</li> <li>▪ <i>Where the term "N/A" appears in any part of an ExTR package, it indicates that the associated issue was considered "Not applicable" to the involved evaluation.</i></li> <li>▪ <i>In accordance with IECEx 02, a Receiving ExCB may request a sample of the Ex equipment and copies of the documentation referred to in an ExTR Cover.</i></li> </ul>	
The technical content of this ExTR package shall not be reproduced except in full without the written approval of the Issuing ExCB and ExTL.	
<b>General product information:</b>	
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 stainless steel investment casting. 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: M20x1.5, 1/2NPTmod, 3/4NPTmod.	
3) The cylindrical joint d1:	
O6.0 (+0.04, -0.05), O6.1 H8, O8.1 H8, O8.0 (+0.1, +0.02), O9.6 H8, O10.1 H7, O10.0 (+0.1, +0.02), O12.1 H7, O12.8 H7, O15.1 H7 or	
O13 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: M20x1.5, M24x1.5, M27x2, 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.

The cover is sealed by sealing O-ring.

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

The enclosure is coated by chemically resistant paint.

See Application manual No. N-L2236 dated 05.12.2016

**Details of change (applicable only when revising an existing ExTR package):**

- 1) Completion of alternative using type taper threads Rc<sup>1</sup>/<sub>2</sub>, Rc<sup>3</sup>/<sub>4</sub>, BSPT<sup>1</sup>/<sub>2</sub>, BSPT <sup>3</sup>/<sub>4</sub> and cylindrical threads G <sup>1</sup>/<sub>2</sub>, G<sup>3</sup>/<sub>4</sub>, G <sup>3</sup>/<sub>8</sub>, BSPP<sup>1</sup>/<sub>2</sub>, BSPP <sup>3</sup>/<sub>4</sub>, BSPP<sup>3</sup>/<sub>8</sub> for threaded joint D<sub>1</sub> .
- 2) Modification of the "Schedule of Limitations"

**Copy of Marking Plate:**

LIMATHERM COMPONENTS, 41-506 CHORZÓW POLAND  
1026 Ⓢ II 2G Ex db IIC Gb; II 2D Ex tb IIIC Db;  
FTZU 03 ATEX 0074U  
Ex db IIC Gb; Ex tb IIIC Db;  
IECEX FTZU 14.0003U  
**Type: XD-AD**

LIMATHERM COMPONENTS, 41-506 CHORZÓW POLAND  
1026 Ⓢ II 2G Ex db IIC Gb; II 2D Ex tb IIIC Db;  
FTZU 03 ATEX 0074U  
Ex db IIC Gb; Ex tb IIIC Db;  
IECEX FTZU 14.0003U  
**Type: XD-AB**

LIMATHERM COMPONENTS, 41-506 CHORZÓW POLAND  
1026 Ⓢ II 2G Ex db IIC Gb; II 2D Ex tb IIIC Db;  
FTZU 03 ATEX 0074U  
Ex db IIC Gb; Ex tb IIIC Db;  
IECEX FTZU 14.0003U  
**Type: XD-ADwin**

LIMATHERM COMPONENTS, 41-506 CHORZÓW POLAND  
1026 Ⓢ II 2G Ex db IIC Gb; II 2D Ex tb IIIC Db;  
FTZU 03 ATEX 0074U  
Ex db IIC Gb; Ex tb IIIC Db;  
IECEX FTZU 14.0003U  
**Type: XD-ADH**

**Details regarding 'trade agent' / 'local assembler' application in accordance with OD 203: NA**

**In accordance with OD 024, testing not fully performed by ExTL staff at the above ExTL address:NA**

**National differences considered as part of this evaluation: NA**

**"Specific Conditions of Use" / "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 60079-1:2014 cl.D.3.10;
4. Appropriate certify cable glands for direct entry has to be used;
5. The process threaded joint D<sub>1</sub> shall be verified according to IEC 60079-31,cl. 5.1.2 for final installation as equipment.

**Routine tests: NA**

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Technical Documents			
Title:	Drawing. No:	Version:	Date:
Application manual	N-L2236	-	05.12.2016
XD-AD	2-Z-L1983	b	05.12.2016
XD-ADwin	2-Z-L2068	b	05.12.2016
XD-ADF	2-Z-L2186	b	05.12.2016
XD-ADFwin	2-Z-L2187	b	05.12.2016
XD-ADEH	2-Z-L2219	b	05.12.2016
XD-ADFEH	2-Z-L2221	b	05.12.2016
XD-ADH	2-Z-L3105	b	05.12.2016
XD-AH	2-Z-L3537	b	05.12.2016
XD-AB	2-Z-L3538	b	05.12.2016
XD-AHH	2-Z-L3539	b	05.12.2016
XD-ABH	2-Z-L3540	b	05.12.2016
XD-AHwin	2-Z-L3541	b	05.12.2016
XD-ABwin	2-Z-L3542	b	05.12.2016
XD-AHEH	2-Z-L3543	b	05.12.2016
XD-ABEH	2-Z-L3544	b	05.12.2016
XD-AHF	2-Z-L3548	b	05.12.2016
XD-ABF	2-Z-L3549	b	05.12.2016
XD-AHFH	2-Z-L3550	b	05.12.2016
XD-ABFH	2-Z-L3551	b	05.12.2016
XD-AHFwin	2-Z-L3552	b	05.12.2016
XD-ABFwin	2-Z-L3553	b	05.12.2016
XD-AHFEH	2-Z-L3554	b	05.12.2016
XD-ABFEH	2-Z-L3555	b	05.12.2016
XD-ADFH	2-Z-L3723	b	05.12.2016
XD-AD-AK93	2-Z-L4049	b	05.12.2016

Note: An \* is included before the title of documents that are new or revised.