



(1) **Supplementary EU - Type Examination Certificate No.8**

(2) **Component Intended for use on/in an Equipment or Protective System
Intended for use in Potentially Explosive Atmospheres
(Directive 2014/34/EU)**

(3) EU - Type Examination Certificate number:

FTZÚ 04 ATEX 0332U

(4) Product: **Universal two-compartments instrument housing
type XD-ID100, XD-ID100win, XD-ID100H, XD-ID100Hwin and XD-IDAC**

(5) Manufacturer: **Limatherm, S.A.**

(6) Address: **ul. Tarnowska 1, 34-600 Limanowa, Poland**

(7) This supplementary certificate extends EC - Type Examination Certificate No. FTZÚ 04 ATEX 0332U to apply to products designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

(8) The Physical-Technical Testing Institute, Notified Body number 1026, in accordance with Articles 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26.02.2014, certifies that this product, as modified by this supplementary certificate, has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

(9) In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20.04.2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20.04.2016.

(10) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018, EN 60079-1:2014, EN 60079-31:2014

(11) The marking of the product shall include the following:

 **II 2G Ex db IIC Gb
II 2D Ex tb IIIC Db**

(12) This certificate is valid till: **31.10.2024**

Responsible person:

Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 21.10.2019

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Physical-Technical Testing Institute
Ostrava - Radvanice

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(14) **Supplementary EU - Type Examination Certificate No. 8
to FTZÚ 04 ATEX 0332U**

(15) Description of the variation to the Product:

The subject of this supplementary certificate is:

- Evaluation according to the newest standards.
- Prolongation of certificate validity.

The design of empty enclosure with type of Ex-protection Ex db and Ex tb was unchanged.

The enclosure is recertified according to the standards EN IEC 60079-0:2018, EN 60079-1:2014 and EN 60079-31:2014.

(16) Report Number.: 04/0332/8

(17) Schedule of Limitations:

1. The maximum number, size and position of threaded entries – see the application manual - document N-L2611 dated 19.07.2019 and N-L4150 dated 24.07.2019.
2. A service temperature range according to model:
XD-ID100, XD-ID100H: -40°C to +100°C.
XD-ID100win, XD-ID100Hwin, XD-IDAC: -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 least 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 40 bars / 10 s. The measured maximum reference pressure was 9.77 bars.

(18) Essential Health and Safety Requirements:

Compliance with the Essential Health and Safety Requirements is covered by standards mentioned in clause (10) of this supplementary certificate.

Responsible person:

Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 21.10.2019

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Physical-Technical Testing Institute
Ostrava - Radvanice

(13)

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(14) **Supplementary EU - Type Examination Certificate No. 8
to FTZÚ 04 ATEX 0332U**

(19) Drawings and Documents:

Number	Sheets	Issue	Date	Description
N-L2611	8	--	19.07.2019	Application manual XD-ID100
--	4	--	19.07.2019	Datasheet XD-ID100
1-Z-L2475	1	c	23.07.2019	Drawing XD-ID100
1-Z-L2476	1	c	23.07.2019	Drawing XD-ID100win
1-Z-L3337	1	d	23.07.2019	Drawing XD-ID100win
1-Z-L3448	1	d	23.07.2019	Drawing XD- XD-ID100H
1-Z-L3449	1	d	23.07.2019	Drawing XD- XD-ID100Hwin
N-L4150	8	--	24.07.2019	Application manual XD-IDAC
--	2	--	24.07.2019	Datasheet XD-IDAC
1-Z-4123	1	a	23.07.2019	Drawing XD-IDAC

Responsible person:

Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 21.10.2019

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Supplement No. 7 to EC-Type Examination Certificate

(1)

(2)

Equipment or Protective Systems Intended for Use
in Potentially Explosive Atmospheres
(Directive 94/9/EC)

(3) EC-Type Examination Certificate Number:

FTZÚ 04 ATEX 0332U

(4) Component: **Universal two-compartments instrument housing type XD-ID100,
XD-ID100win, XD-ID100H, XD-ID100Hwin and XD-IDAC**

(5) Manufacturer: **Limatherm, S.A.**

(6) Address: **ul. Tarnowska 1, 34-600 Limanowa, Poland**

(7) This supplement of certificate is valid for: - modification of certified component
- verification according to new standards
- prolongation of certificate validity

(8) Modification of certified component and any of its approved variants are specified in documentation, a list of which is mentioned in schedule of this certificate.

(9) This supplement to type examination relates only to design, examination and testing of the specified component in accordance to the directive 94/9/EC. If applicable, further requirements of the Directive apply to the manufacture and supply of this component.

(10) Safety requirements of modified parts were fulfilled by satisfying of the following standards:

EN 60079-0:2012; EN 60079-1:2007; EN 60079-31:2009

(11) Marking of component shall contain symbols:

 **II 2G Ex d IIC Gb**

 **II 2D Ex tb IIIC Db**

(12) This type examination certificate is valid till: **31.07. 2019**

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 24.07.2014

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Physical Technical Testing Institute
Ostrava – Radvanice

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(14)

Supplement No. 7 to
EC-Type Examination Certificate N° FTZÚ 04 ATEX 0332U

(15) Description of Component:

Modification of the Universal two-compartments instrument housing consists of:

- 1) Change the thickness of circlip from 2 mm to 3 mm in types of housing with window;
- 2) The length of NPT threads was changed from 13mm to 16,2mm;
- 3) Introducing new type of housing XD-IDAC.

The types of the Universal two-compartment instrument housing are recertified according to standards EN 60079-0:2012; EN 60079- 1:2007 and EN 60079-31:2009.

(16) Report No.: 07/0332-d7

(17) Schedule of Limitations:

- 17.1 The special conditions described in main document and the supplement No. 1, 2, 3, 4, 5 and 6 are valid in whole range.
- 17.2 Service temperature and IP protection of type XD-IDAC: -40°C to +85°C; IP 67.
- 17.3 Max.number, size and position of apertures – see (19) of this supplement.
- 17.4 The enclosure with Ex component certificate shall be applied only by assumption of filling requests of the standard EN 60079-1:2009 cl.D.3.10.

(18) Essential Health and Safety Requirements:

Covered by standards mentioned in (10) of this supplement of certificate.

(19) List of Documentation:

Title:	Drawing No.:	Date:	Revision:
Application manual	N-L2611	11.02.2014	
Datasheet	XD-ID100...	11.02.2014	
1-Z-L2475	XD-ID100	11.02.2014	rev. b
1-Z-L2476	XD-ID100win	11.02.2014	rev.b
1-Z-L3337	XD-ID100win	11.02.2014	rev. c
1-Z-L3448	XD-ID100H	11.02.2014	rev.c
1-Z-L3449	XD-ID100Hwin	11.02.2014	rev. c
Application manual	N-L4150	29.08.2012	
Datasheet	XD-IDAC	29.08.2012	
1-Z-L4123	XD-IDAC	29.08.2012	

Responsible person:


Dipl. Ing. Lukáš Martinák

Head of Certification Body



Date of issue: 24.07.2014

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(1) **Supplement No. 6 to
EC-Type Examination Certificate**

(2) **Equipment or Protective Systems Intended for use
in Potentially Explosive Atmospheres
Directive 94/9/EC**

(3) EC-Type Examination Certificate Number:

FTZÚ 04 ATEX 0332U

(4) Equipment or protective system: **Model XD-ID100, XD-ID100win, XD-ID100H, XD-ID100Hwin
Universal two-compartments instrument housing**

(5) Manufacturer: **Limatherm, S.A.**

(6) Address: **ul. Tarnowska 1, 34-600 Limanowa, Poland**

(7) This supplement of certificate is valid for: - Recertification according to new standards
- Prolongation of certificate validity;

(8) Modification of certified apparatus (protective system) and any of its approved variants are specified in documentation, a list of which is mentioned in the schedule of this certificate.

(9) This supplement to type examination certificate is valid only for type examination of design and construction of product sample in accordance with Annex 3 Paragraph 6) of Directive No. 94/9/EC. The Directive contains other requirement which the manufacturer shall fulfil before products are placed on the market or introduce in service.

(10) Safety requirements of modified parts were fulfilled by satisfying the following standards:

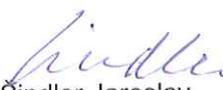
EN 60079-0:2009; EN 60079-1:2008; EN 60079-31:2009

(11) Marking of equipment shall contain symbols:

 **II2G Ex d IIC Gb**
 **II2D Ex t IIIC Db**

(12) This type examination certificate is valid till: **31.10.2015**

Responsible person:


Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 07.10.2010

Number of pages: 3
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**Physical Technical Testing Institute
Ostrava-Radvanice**

(13) **Schedule**

(14) **Supplement No. 6 to
EC-Type Examination Certificate N° FTZÚ 04 ATEX 0332U**

(15) Description of Equipment or Protective System:

The enclosure was recertified based on EN 60079-0:2009, EN 60079-1:2008 and EN 60079-31:2009.

Further was a quantity of D1 thread reduced to: M20x1,5; M24x1,5; M25x1,5; M27x1,5; 1/2NPTmod;3/4NPTmod and of D2, D3 thread to: M20x1,5; M24x1,5; M25x1,5; 1/2NPTmod and 3/4NPTmod.

(16) Report No. : 04/0332-D6

(17) Special conditions for safe use:

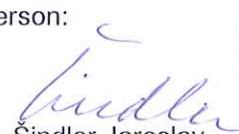
17.1 The special conditions described in main document and the supplements No. 1, 2, 3, 4 and 5 are valid in whole range.

(18) Essential Health and Safety Requirements:

Covered by standards mentioned in (10) of this supplement.

Any relevant tests are not necessary to do according to successional standard EN 60079-0:2009, EN 60079-1:2008 EN 60079-31 and as that were made acc. to Standard EN 60079-0:2006, EN 60079-1:2004 and EN 61241-0:2006.

Responsible person:


Dipl. Ing. Sındler Jaroslav
Head of certification body



Date of issue: 07.10.2010

Number of pages: 3
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**Physical Technical Testing Institute
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(14)

**Supplement No. 6 to
EC-Type Examination Certificate N° FTZÚ 04 ATEX 0332U**

(19)

LIST OF DOCUMENTATION

<i>Documentation:</i>	<i>Description:</i>	<i>Date</i>
N-L2611	Application manual	27.8.2010
XD-ID100	Data sheet	27.8.2010
1-Z-L2475	XD-ID100 (incl. version of L3338 and L3436)	08.07.2010 - rev.a
1-Z-L2476	XD-ID100win	08.07.2010 - rev.a
1-Z-L3337	XD-ID100win (incl. version of L3437)	08.07.2010 - rev.b
1-Z-L3448	XD-ID100H	08.07.2010 - rev.b
1-Z-L3449	XD-ID100Hwin	08.07.2010 - rev.b

Responsible person:


Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 07.10.2010

Number of pages: 3
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(1) **Supplement No. 5 to
EC-Type Examination Certificate**

(2) **Equipment or Protective Systems Intended for use
in Potentially Explosive Atmospheres
Directive 94/9/EC**

(3) EC-Type Examination Certificate Number:

FTZÚ 04 ATEX 0332U

(4) Equipment or protective system: **Model XD-ID100, XD-ID100win, XD-ID100H, XD-ID100Hwin
universal two-compartments instrument housing**

(5) Manufacturer: **Limatherm, S.A.**

(6) Address: **ul. Tarnowska 1, 34-600 Limanowa, Poland**

(7) This supplement of certificate is valid for: - recertification according to standards EN 61241-0
and EN 61241-1

(8) Modification of certified apparatus (protective system) and any of its approved variants are specified
in documentation, list of which is mentioned in schedule of this certificate.

(9) This supplement to type examination certificate is valid only for type examination of design and
construction of product sample in accordance with Annex 3 Paragraph 6) of Directive No. 94/9/EC.
The Directive contains another requirements, which manufacturer shall fulfil before products are
place on market or introduce in service.

(10) Safety requirements of modified parts were fulfilled by satisfying the following standards:

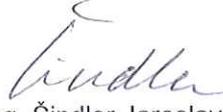
EN 60079-1:2004; EN 61241-0:2006; EN 61241-1:2004

(11) Marking of equipment shall contain symbols:

 **II 2GD Ex d tD IIC**

(12) This type examination certificate is valid till: **30 December 2011**

Responsible person:


Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 09.07.2007

Number of pages: 3
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**Physical Technical Testing Institute
Ostrava-Radvanice**

(13) **Schedule**

(14) **Supplement No. 5 to
EC-Type Examination Certificate N° FTZÚ 04 ATEX 0332U**

(15) Description of Equipment or Protective System:

The enclosure was recertified based on EN 61241-0:2006 and EN 61241-1:2004.

The overpressure test was made according to cl. 15.3.1 of the standard EN 60079-1 by overpressure 55 bar (the requirement on the overpressure test made on each piece of the enclosure is canceled).

(16) Report No. : 04/0332-D5

(17) Special conditions for safe use:

The special conditions described in main document and the supplements No. 1, 2, 3 and 4 are valid in whole range.

(18) Essential Health and Safety Requirements:

Covered by standards mentioned in (10) of this supplement.

Any relevant tests are not necessary to do according to successional standard EN 61241-0 and EN 61241-1 as that was made according to Standard EN 50281-1-1.

Responsible person:

Dipl. Ing. Šindler Jaroslav

Head of certification body



Date of issue: 09.07.2007

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Physical Technical Testing Institute
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(13) **Schedule**

(14) **Supplement No. 5 to
EC-Type Examination Certificate N° FTZÚ 04 ATEX 0332U**

(19) **LIST OF DOCUMENTATION**

- Application manual N – L2611 dated 24.05.2007
- Drawings N°:
 - 1-Z-L3337 dated 09.02.2006, rev. a dated 05.2007
 - 1-Z-L3338 09.02.2007, rev. a dated 05.2007
 - 1-Z-L3448 31.05.2006, rev. a dated 05.2007
 - 1-Z-L3449 31.05.2006, rev. a dated 05.2007
 - 4-Z-L2561 12.07.2004, rev. b dated 05.2007
- Catalogue sheets for model:
 - XD-ID100
 - XD-ID100win
 - XD-ID100H
 - XD-ID100Hwin

Responsible person:

Date of issue: 09.07.2007

Dipl. Ing. Šindler Jaroslav

Head of certification body



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(1) **Supplement No. 4 to
EC-Type Examination Certificate**

(2) **Equipment or Protective Systems Intended for use
in Potentially Explosive Atmospheres
Directive 94/9/EC**

(3) EC-Type Examination Certificate Number:

FTZÚ 04 ATEX 0332U

(4) Equipment or protective system: **Model XD-ID100, XD-ID100win, XD-ID100H, XD-ID100Hwin
universal two-compartments instrument housing**

(5) Manufacturer: **Limatherm, S.A.**

(6) Address: **ul. Tarnowska 1, 34-600 Limanowa, Poland**

(7) This supplement of certificate is valid for: - recertification according below mentioned standards
EN 60079-0, EN 60079-1 and prolongation of the certificate

(8) Modification of certified apparatus (protective system) and any of its approved variants are specified
in documentation, list of which is mentioned in schedule of this certificate.

(9) This supplement to type examination certificate is valid only for type examination of design and
construction of product sample in accordance with Annex 3 Paragraph 6) of Directive No. 94/9/EC.
The Directive contains another requirements, which manufacturer shall fulfil before products are
place on market or introduce in service.

(10) Safety requirements of modified parts were fulfilled by satisfying the following standards:

EN 60079-0:2004

EN 60079-1:2004

EN 50281-1-1:1998

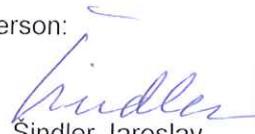
(11) Marking of equipment shall contain symbols:



II 2GD Ex d IIC

(12) This type examination certificate is valid till: **31 December 2011**

Responsible person:


Dipl. Ing. Sindler Jaroslav
Head of certification body



Date of issue: 05.12.2006

Number of pages: 2

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Physical Technical Testing Institute
Ostrava-Radvanice

(13) **Schedule**

(14) **Supplement No. 4 to
EC-Type Examination Certificate N° FTZÚ 04 ATEX 0332U**

(15) Description of Equipment or Protective System:

The enclosure was recertified based on EN 60079-0:2004 and EN 60079-1:2004.

Regarding to above mentioned standards have not been necessary to the differential tests.

(16) Report No. : 04/0332-1

(17) Special conditions for safe use:

17.1 The special conditions described in main document and the supplements No. 1, 2 and 3 are valid in whole range.

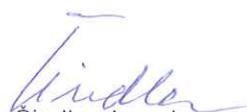
(18) Essential Health and Safety Requirements:

Covered by standards mentioned in (10 of this supplement.

(19) LIST OF DOCUMENTATION

➤ Instruction manual No.	N - L2611	dated 07.11.2006
➤ Catalogue's list for:	XD-ID100	dated 12.2006
	XD-ID100win	dated 12.2006
	XD-ID100H	dated 12.2006
	XD-ID100Hwin	dated 12.2006

Responsible person:


Dipl. Ing. Sindler Jaroslav
Head of certification body



Date of issue: 05.12.2006

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(1) **Supplement No. 3 to
EC-Type Examination Certificate**

(2) **Equipment or Protective Systems Intended for use
in Potentially Explosive Atmospheres
Directive 94/9/EC**

(3) EC-Type Examination Certificate Number:

FTZÚ 04 ATEX 0332U

(4) Equipment: **Model XD-ID100, XD-ID100win, XD-ID100H, XD-ID100Hwin,
universal two-compartments instrument housing**

(5) Manufacturer: **Limatherm, Sp. z o.o.**

(6) Address: **ul. Tarnowska 1, 34-600 Limanowa, Poland**

(7) This supplement of certificate is valid for: - modification of certified apparatus

(8) Modification of certified component and any of its approved variants are specified in documentation, list of which is mentioned in schedule of this certificate.

(9) This supplement to type examination relates only to design, examination and testing of the specified component in accordance to the directive 94/9/EC. If applicable, further requirements of the Directive apply to the manufacture and supply of this component.

(10) Safety requirements of modified parts were fulfilled by satisfying of following standards:

EN 50014:1997+A1+A2

EN 50018:2000

EN 50281-1-1:1998

(11) Marking of equipment shall contain symbols:

 **II 2GD EEx d IIC**

(12) This type examination certificate is valid till: **30 November 2009**

Responsible person:

Dipl. Ing. Šindler Jaroslav

Head of certification body



Date of issue: 19.07.2006

Number of pages: 3

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**Physical Technical Testing Institute
Ostrava-Radvanice**

(13)

Schedule

(14)

**Supplement No. 3 to
EC-Type Examination Certificate N° FTZÚ 04 ATEX 0332U**

(15) Description of variation to the Equipment:

There on the enclosure of the instrument housing is on a part with diameter D1 (sensor output) used outer thread M 36x2.

Alternatively is used a high cover (modification XD-ID100H or XD-ID100Hwin).

(16) Report No. : 04/0332, changes on pages 5 and 6 (+ Protocol No. 06.0305-19)

(17) Special conditions for safe use:

17.1 The special conditions described in main document are valid in whole range.

17.2 Max. dissipation power for temperature class are as follow:

Max. power dissipation (W)				
T_{amb}	Temperature class T6 85°C	Pztr (W)		Pztr (W)
		For all variety of enclosures position horizontally/vertically	Temperature class T5 100°C	
40°C	$\Delta 0 \leq 40$ K	26/20	$\Delta 0 \leq 55$ K	38/33
55°C	$\Delta 0 \leq 25$ K	15/11	$\Delta 0 \leq 40$ K	26/20
70°C	$\Delta 0 \leq 10$ K	5/4	$\Delta 0 \leq 25$ K	15/11
85°C	N.A.	--	$\Delta 0 \leq 10$ K	5/4

Responsible person:

Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 19.07.2006

Number of pages: 3

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Physical Technical Testing Institute
Ostrava-Radvanice

(13) **Schedule**

(14) **Supplement No. 3 to
EC-Type Examination Certificate N° FTZÚ 04 ATEX 0332U**

(19) **LIST OF DOCUMENTATION**

➤ Operating instruction		dated 14.07.2006
➤ Drawings No.:	1 – L3435	22.05.2006
	1 – Z – L3436	22.05.2006
	1 – Z – L3437	22.05.2006
	1 – Z – L3438	22.05.2006
	1 – Z – L3448	31.05.2006
	1 – Z – L3449	31.05.2006





(1) **Supplement No. 2 to
EC-Type Examination Certificate**

(2) **Equipment or Protective Systems Intended for use
in Potentially Explosive Atmospheres
Directive 94/9/EC**

(3) EC-Type Examination Certificate Number:

FTZÚ 04 ATEX 0332U

(4) Equipment: **Model XD-ID100, XD-ID100win,
universal two-compartments instrument housing**

(5) Manufacturer: **Limatherm, Sp. z o.o.**

(6) Address: **ul. Tarnowska 1, 34-600 Limanowa, Poland**

(7) This supplement of certificate is valid for: - modification of certified apparatus

(8) Modification of certified component and any of its approved variants are specified in documentation, list of which is mentioned in schedule of this certificate.

(9) This supplement to type examination relates only to design, examination and testing of the specified component in accordance to the directive 94/9/EC. If applicable, further requirements of the Directive apply to the manufacture and supply of this component.

(10) Safety requirements of modified parts were fulfilled by satisfying of following standards:

EN 50014:1997+A1+A2

EN 50018:2000

EN 50281-1-1:1998

(11) Marking of equipment shall contain symbols:

 **II 2GD EEx d IIC**

(12) This type examination certificate is valid till: **30 November 2009**

Responsible person:

Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 10.03.2006

Number of pages: 2
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Physical Technical Testing Institute
Ostrava-Radvanice

(13) **Schedule**

(14) **Supplement No. 2 to
EC-Type Examination Certificate N° FTZÚ 04 ATEX 0332U**

(15) Description of variation to the Equipment:

- The drawings with more details were filled in the documentation.
- The housing is alternatively tested as one room (without flameproof wire bushing).
- Also the thickness of the window has been increased to 15 mm.

(16) Report No. : 04/0332, changes on pages 6 and 7

(17) Special conditions for safe use:

The special conditions described in main document are valid in whole range.

(18) Essential Health and Safety Requirements:

Covered by standards mentioned in (10) of this supplement.

(19) LIST OF DOCUMENTATION

➤ Drawings No.:	2 – Z – L2475	17.06.2005
	2 – Z – L2476	17.06.2005
	1 – Z – L3337	09.02.2006
	1 – Z – L3338	09.02.2006

Responsible person:

Dipl. Ing. Šindler Jaroslav

Head of certification body



Date of issue: 10.03.2006

Number of pages: 2

Page: 2/2

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(1) **Supplement No. 1 to
EC-Type Examination Certificate**

(2) **Equipment or Protective Systems Intended for use
in Potentially Explosive Atmospheres
Directive 94/9/EC**

(3) EC-Type Examination Certificate Number:

FTZÚ 04 ATEX 0332U

(4) Equipment: **Model XD-ID100, XD-ID100win,
universal two-compartments instrument housing**

(5) Manufacturer: **Limatherm, Sp. z o.o.**

(6) Address: **ul. Tarnowska 1, 34-600 Limanowa, Poland**

(7) This supplement of certificate is valid for: - modification of certified apparatus

(8) Modification of certified component and any of its approved variants are specified in documentation, list of which is mentioned in schedule of this certificate.

(9) This supplement to type examination relates only to design, examination and testing of the specified component in accordance to the directive 94/9/EC. If applicable, further requirements of the Directive apply to the manufacture and supply of this component.

(10) Safety requirements of modified parts were fulfilled by satisfying of following standards:

EN 50014:1997+A1+A2

EN 50018:2000

EN 50281-1-1:1998

(11) Marking of equipment shall contain symbols:

 **II 2GD EEx d IIC**

(12) This type examination certificate is valid till: **30 November 2009**

Responsible person:


Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 19.07.2005

Number of pages: 2

Page: 1/2

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**Physical Technical Testing Institute
Ostrava-Radvanice**

(13)

Schedule

(14)

**Supplement No. 1 to
EC-Type Examination Certificate N° FTZÚ 04 ATEX 0332U**

(15) Description of Equipment:

- a) In cover designed for housing type XD-ID100 and XD-ID100win there is possible to make a caution inscription in free additional languages: German, Italian, Spanish etc.
There is also possibility to make a logo according to personal requirements of our clients.
- b) The taper NPT thread according to ANSI/ASME B1.20.1-1983 is executed in openings under cable glands or sensors with modification to meet simultaneously standards **IEC 60079-1**, **EN 50018**, **CSA C22.2No.5** and **FM 3615**.

(16) Report No. : 04/0332, changes on pages 6 and 7

(17) Special conditions for safe use:

The special conditions described in main document are valid in whole range.

(18) Essential Health and Safety Requirements:

Covered by standards mentioned in (10) of this supplement.

(19) LIST OF DOCUMENTATION

- | | | |
|-----------------------|-----------|------------|
| ➤ Drawings No.: | 3 - L2043 | 17.06.2005 |
| | 3 - L2044 | 10.06.2005 |
| | 3 - L2045 | 17.06.2005 |
| | 3 - L2046 | 10.06.2005 |
| ➤ Annex for OIT-17/03 | updated | 01.06.2005 |
- (Taper thread NPT, R modification for flameproof EEx d and explosionproof (XP) enclosures)

Responsible person:

Dipl. Ing. Šindler Jaroslav

Head of certification body



Date of issue: 19.07.2005

Number of pages: 2

Page: 2/2

This supplement to certificate is granted subject to the general conditions of the Physical Technical Testing Institute.
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EC-Type Examination Certificate

- (1)
(2) **Equipment or Protective Systems Intended for use
in Potentially Explosive Atmospheres
Directive 94/9/EC**

(3) EC-Type Examination Certificate Number:

FTZÚ 04 ATEX 0332U

(4) Component: **Model XD-ID100, XD-ID100win,
universal two-compartments instrument housing**

(5) Manufacturer: **Limatherm, Sp. z o.o.**

(6) Address: **ul. Tarnowska 1, 34-600 Limanowa, Poland**

- (7) This Component and any of acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- (8) The Physical Technical Testing Institute, notified body number 1026 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Report N°
04/0332 dated November 2004

(9) Compliance with Essential Health and safety requirements has been assured by compliance with:

EN 50014:1997+A1+A2

EN 50018:2000

EN 50281-1-1:1998

The sign „U” placed after the certificate number indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment or protective system.

(10) This EC-TYPE EXAMINATION CERTIFICATE relates only to design, examination and testing of the specified component in accordance to the directive 94/9/EC. If applicable, further requirements of the Directive apply to the manufacture and supply of this component.

(11) The marking of the component shall include following:

 **II 2GD EEx d IIC**

This EC-Type Examination Certificate is valid till: **30th November 2009**

Responsible person:


Mr. Šindler Jaroslav
Head of certification body



Date of issue: 30th November 2004

Number of pages: 1/3

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Physical Technical Testing Institute
Ostrava-Radvanice

(13)

Schedule

(14) **EC-Type Examination Certificate N° FTZÚ 04 ATEX 0332U**

(15) Description of Component:

Univerzal two-compartments instrument housing is foreseen to accommodate different electronics devices for working in hazardous areas with flammable gases, vapours and dusts.

The enclosure which consists of two-compartments and cover are made of aluminium pressure die-casting (Mg<6%). The covers are locked by screw with hex socket using hex spanner.

An earth terminal is placed on the body of enclosure. The covers are fixed to the body by thread M100x2. Each cover is sealed by "O" ring.

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

The threaded hole for flameproof cable gland M20x1,5; M24x1,5; M25x1,5; G1/2; BSP1/2; G3/4; BSP3/4; Rc1/2mod; BSPT1/2mod; Rc3/4mod; BSPT3/4mod; 1/2NPTmod or 3/4NPTmod are prepared on the body of enclosure.

The threaded hole M20x1,5; M24x1,5; M25x1,5; M27x2; G1/2; BSP1/2; G3/4; BSP3/4; Rc1/2mod; BSPT1/2mod; Rc3/4mod; BSPT3/4mod; 1/2NPTmod or 3/4NPTmod is prepared for thermowell sensor measuring insert.

The compartments are electrically connected with a wire bushing manufactured by BARTEC.

The enclosure is coated by chemically resistant paint.

(16) Report No. : 04/0332

(17) Schedule of Limitations:

17.1 -40°C <Tserv. >100°C for XD-ID100.

17.2 -40°C<Tserv. > 85°C for XD-ID100win.

17.3 IP protection 66 ÷ 68 – is depend on applied cable gland.

(18) Essential Health and Safety Requirements:

Covered by standards mentioned in (9) of this certificate.

Responsible person:


Mr. Šindler Jaroslav
Head of certification body



Date of issue: 30 November 2004

Number of pages: 2/3

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Physical Technical Testing Institute
Ostrava-Radvanice

(13)

Schedule

(14) **EC-Type Examination Certificate N° FTZÚ 04 ATEX 0332U**

(19)

LIST OF DOCUMENTATION

- Application manual No. N-L2611 dated 09.09.2004
- Catalogue sheets: EEx d instrument housing typ XD-ID100
EEx d instrument housing typ XD-ID100win
- Drawings N°: 1-Z-L2475 dated 12.07.2004
1-Z-L2476 dated 12.07.2004

Documentation archived by certification No. 03 ATEX 0207U:

- Aluminium specification
- Resistance of paint coatings to aggressive chemical agents and environment
- Earth terminals, protection terminals
- Seal rubber specification
- Taper threads for explosionproof/flareproof openings
- Silicone rubber specification R701/40-R701/80
- Silicone encapsulant "Sylgard 567" specification
- Condition for testing of in instrument housing of protection against continuous submersion in water – IP 68

