



Physical-Technical Testing Institute
Ostrava - Radvanice



(1) **Supplementary EU - Type Examination Certificate No.5**

- (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 08 ATEX 0182U

- (4) Product: **Universal instrument housing type XD-D120..., XD-D120win..., XDE-D120..., XDE-D120win, XD-DR120win, XD-MDR120win**
- (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 08 ATEX 0182U 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 60079-7:2015+A1:2017, EN 60079-31:2014

The sign „U” is placed after the certificate number. It 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.

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



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

Ex db eb IIC Gb

- (12) This certificate is valid till: **30.04.2026**

Responsible person:

Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 30.04.2021

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**Physical-Technical Testing Institute
Ostrava - Radvanice**

(13)

Schedule

(14) **Supplementary EU - Type Examination Certificate No. 5
to FTZÚ 08 ATEX 0182U**

(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 Universal instrument housing type XD-D120..., XD-D120win..., XDE- D120..., XDE-D120win, XD-DR120win, XD-MDR120win is verified according to the newest standards EN IEC 60079-0:2018 and EN 60079-7:2015+A1:2017.

The design remain unchanged.

Ex marking of the variants:

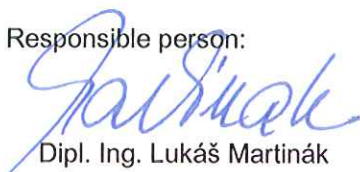
- ⊕ II 2G Ex db IIC Gb - for type XD-D...; XD-DR120win; XD-MDR120win
⊕ II 2G Ex db eb IIC Gb - for type XDE-D...

(16) Report Number: 08/0182/5

(17) Schedule of Limitations:

1. Max. numbers of holes, their size and position are given in Application manual. N-L3795 and N-L4264 dated 14.01.2021 and 21.01.2021
2. It is not allowed to install circuit breaker or contactors with oil filling and rotating apparatus producing turbulence inside of the enclosure.
3. For information on the dimensions of the flameproof joints the manufacturer shall be contacted.
4. Service temperature range for type of housing and used sealing ring:
from -40°C to +150°C for XD-D120; XDE-D120.
from -40°C to +85°C for XD-D120win; XDE-D120win; XD-DR120win; XD-MDR120win.
5. The empty enclosure is applicable for electrical apparatus, designed for ambient temperature not exceeding following range:
a) XD-D120; XDE-D120 from -40°C to +150°C.
b) XD-D120win; XDE-D120win; XD-DR120win; XD-MDR120win from -40°C to +60°C.
6. The apparatus installed inside of the enclosure can have any layout, ensuring more 40 % (group IIC) of free cross-section.
7. Appropriate certify cable glands for direct entry has to be used.
8. If the Ex- conductor bushing is used, the new-created cylindrical joint has to be tested according to EN 60079-1:2014.
9. Component must be installed to avoid a risk from propagating brush discharges for application in explosive dust atmosphere.
10. The overpressure static test was made with 50 bar (the routine tests is not necessary to do).

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 30.04.2021

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**Physical-Technical Testing Institute
Ostrava - Radvanice**

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Schedule

(14) **Supplementary EU - Type Examination Certificate No. 5
to FTZÚ 08 ATEX 0182U**

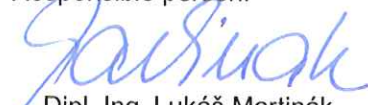
(18) Essential Health and Safety Requirements:

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

(19) Drawings and Documents:

Number	Revision	Sheets	Date	Description
N-L3795	--	9	14.01.2021	User manual
N-L4264	--	8	21.01.2021	User manual
--	--	1	14.01.2021	Data sheet XD-D120
--	--	1	21.01.2021	Data sheet XDE-D120
--	--	1	21.01.2021	Data sheet XD-DR120win
1-Z-L3843	rev.d	1	19.01.2021	Drawing XD-D120L
1-Z-L3844	rev.d	1	19.01.2021	Drawing XD-D120win
1-Z-L3845	rev.d	1	19.01.2021	Drawing XD-D120
1-Z-L3846	rev.d	1	19.01.2021	Drawing XD-D120win
1-Z-L3847	rev.d	1	19.01.2021	Drawing XD-D120H
1-Z-L3848	rev.d	1	19.01.2021	Drawing XD-D120Hwin
1-Z-L4060	rev.c	1	20.01.2021	Drawing XDE-D120L
1-Z-L4061	rev.c	1	20.01.2021	Drawing XDE-D120win
1-Z-L4062	rev.c	1	20.01.2021	Drawing XDE-D120
1-Z-L4063	rev.c	1	20.01.2021	Drawing XDE-D120win
1-Z-L4064	rev.c	1	20.01.2021	Drawing XDE-D120H
1-Z-L4065	rev.c	1	20.01.2021	Drawing XDE-D120Hwin
1-ZL-4259	rev.b	1	21.01.2021	Drawing XD-DR120win
1-Z-L4261	rev.b	1	21.01.2021	Drawing XD-MDR120win

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 30.04.2021

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Physical-Technical Testing Institute
Ostrava - Radvanice



(1) **Supplementary EU - Type Examination Certificate No.4**

- (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 08 ATEX 0182U

- (4) Product: **Universal instrument housing type XD-D120..., XD-D120win..., XDE-D120..., XDE-D120win, XD-DR120win, XD-MDR120win**
- (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 08 ATEX 0182U 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 60079-0:2012, EN 60079-1:2014, EN 60079-7:2015, EN 60079-31:2014
- (11) The marking of the product shall include the following:



II 2G Ex db IIC Gb; Ex db eb IIC Gb



II 2D Ex tb IIIC Db

- (12) This certificate is valid till: **31.05.2021**

Responsible person:

Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 27.05.2016

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**Physical-Technical Testing Institute
Ostrava - Radvanice**

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Schedule

(14) **Supplementary EU - Type Examination Certificate No. 4
to FTZÚ 08 ATEX 0182U**

(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 Universal Instrument Housing type XD-D120..., XD-D120win..., XDE- D120..., XDE-D120win, XD-DR120win, XD-MDR120win is recertified according to newest standards EN 60079-0:2012, EN 60079-1:2015, EN 60079-7:2014 and EN 60079-31:2014.

The design is without any changes.

Ex marking of the variants:

Ex II 2G Ex db IIC Gb - for type XD-D...; XD-DR120win; XD-MDR120win

Ex II 2G Ex db eb IIC Gb - for type XDE-D...

(16) Report Number.: 08/0182/4

(17) Schedule of Limitations:

1. Service temperature range for type of housing and used sealing ring:
 - from -40°C to +150°C for XD-D120; XDE-D120;
 - from -40°C to +85°C for XD-D120win; XDE-D120win; XD-DR120win; XD-MDR120win.
2. Max. numbers of holes, their size and position are given in Application manual no. N-L3795 and N-L4264.
3. Apparatus installed inside of enclosure can has any lay-out, which ensures, that in any cross-section area will be least 40% (group IIC) of area free.
4. For information on the dimensions of the flameproof joints the manufacturer shall be contacted.
5. The housing type XDE-D120... shall be equipped by Ex- wire bushing and the new-created cylindrical joint shall be verified according to the EN 60079-1:2014.
6. IP protection 65 to 68 – is depending on applied cable gland (IP68 – 1m deep).
7. The overpressure static test was made with 50 bars (the routine tests is not necessary to do).
8. The maximum power dissipation for temperature class T6 and T5 – see clause 17.5 in basic certificate.

Responsible person:

Date of issue: 27.05.2016


Dipl. Ing. Lukáš Martinák

Head of Certification Body



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Physical-Technical Testing Institute
Ostrava - Radvanice

(13)

Schedule

(14) **Supplementary EU - Type Examination Certificate No. 4
to FTZÚ 08 ATEX 0182U**

(18) Essential Health and Safety Requirements:

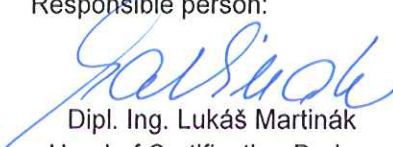
Compliance with the Essential Health and Safety Requirements is covered by standards mentioned in clause (10) of this supplementary certificate.

(19) Drawings and Documents:

Number	Revision	Date	Description
N-L3795	-	08.03.2016	Application manual
N-L4264	-	07.03.2016	-
-	-	07.03.2016	Data sheet XD-D120
-	-	07.03.2016	Data sheet XDE-D120
-	-	07.03.2016	Data sheet XD-DR120win
1-Z-L3843	c	14.03.2016	XD-D120L
1-Z-L3844	c	14.03.2016	XD-D120win
1-Z-L3845	c	14.03.2016	XD-D120
1-Z-L3846	c	14.03.2016	XD-D120win
1-Z-L3847	c	14.03.2016	XD-D120H
1-Z-L3848	c	14.03.2016	XD-D120Hwin
1-Z-L4060	b	14.03.2016	XDE-D120L
1-Z-L4061	b	14.03.2016	XDE-D120win
1-Z-L4062	b	14.03.2016	XDE-D120
1-Z-L4063	b	14.03.2016	XDE-D120win
1-Z-L4064	b	14.03.2016	XDE-D120H
1-Z-L4065	b	14.03.2016	XDE-D120Hwin
1-ZL-4259	a	14.03.2016	XD-DR120win
1-Z-L4261	a	14.03.2016	XD-MDR120win

Responsible person:

Date of issue: 27.05.2016


Dipl. Ing. Lukáš Martinák
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Physical Technical Testing Institute
Ostrava – Radvanice



**Supplement No. 3 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 08 ATEX 0182U

(4) Component: **Universal instrument housing type XD-D120..., XD-D120win...,
XDE-D120..., XDE-D120win**

(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 apparatus

(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 60079-0:2009; EN 60079-1:2007; EN 60079-7:2007;
EN 60079-31: 2009**

(11) Marking of component shall contain symbols:

 **II 2G Ex d IIC Gb**

 **II 2G Ex de IIC Gb**

 **II 2D Ex tb IIIC Db**

(12) This type examination certificate is valid till: **31.01.2016**

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 31.01.2013

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Physical Technical Testing Institute
Ostrava – Radvanice

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(14)

Supplement No. 3 to
EC-Type Examination Certificate N° FTZÚ 08 ATEX 0182U

(15) Description of Component:

The subject of this supplement No. 3 is a modification of the device. Change from the original version is in internal construction enclosure. In the original version of the internal space is divided into two parts and connected by flameproof glands. Now these two spaces are connected into one.

(16) Report No.: 08/0182-D3

2 pages

(17) Schedule of Limitations:

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

(18) Essential Health and Safety Requirements:

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

(19) List of Documentation:

Title:	Drawing No.:	Date:
Application manual	N-L4264	30.08.2012
Data sheet	XD-DR120win	30.08.2012
XD-DR120win	1-Z-L4259	24.08.2012
XD-DR120win	1-Z-L4261	30.08.2012

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 31.01.2013

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**Supplement No. 2 to
EC-Type Examination Certificate**

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

(3) EC-Type Examination Certificate Number:

FTZÚ 08 ATEX 0182U

(4) Component: **Universal instrument housing
type XD-D120...; XD-D120win...; XDE-D120...; XDE-D120win... series**

(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 the new standards

(8) Modification of certified component 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 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 60079-0:2009; EN 60079-1:2007; EN 60079-7:2007; EN 60079-31:2009

(11) Marking of component shall contain symbols:

 **II2G Ex d IIC Gb**

 **II2G Ex de IIC Gb**

 **II2D Ex t IIIC Db**

(12) This type examination certificate is valid till: **31.01.2016**

Responsible person:


Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 15.01.2011

Number of pages: 3
Page: 1/3

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**Physical Technical Testing Institute
Ostrava-Radvanice**

(13)

Schedule

(14)

**Supplement No. 2 to
EC-Type Examination Certificate N° FTZÚ 08 ATEX 0182U**

(15) Description of Component:

- Recertification according to the new standards EN 60079-0:2010 and EN 60079-31:2009 is accepted.
- It was introduced labels for marking opening threads.

(16) Report No. : 08/0182-D2

(17) Schedule of limitations:


- 17.1 Maximum design gaps of flameproof joints are smaller than maximum permitted gaps according to standard. Verified values of design gaps are mentioned in documentation, list of which is given in clause (19) of this certificate.
- 17.2 The special conditions mentioned in the main document and in the supplement No.1 are valid in whole range.
- 17.3 The enclosure with Ex component certificate can be applicable only by assumption of filling requests of the standard EN 60079-1:2007, cl. D.3.10.

(18) Essential Health and Safety Requirements:

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

New standards do not require any further tests as that which were provided according to the standards EN 60079-0:2007 and EN 61241-0:2007.

Responsible person:


Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 15.01.2011

Number of pages: 3

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**Physical Technical Testing Institute
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(13)

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(14)

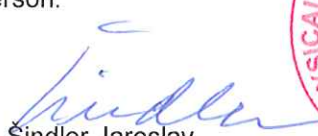
**Supplement No. 2 to
EC-Type Examination Certificate N° FTZÚ 08 ATEX 0182U**

(19)

LIST OF DOCUMENTATION

Documentation:	Description:	Date
N-L3795	Application manual	21.10.20010
XD-D120	Data sheet	10.11.2010
XDE-D120	Data sheet	10.11.2010
1-Z-L3843	XD-D120L	18.11.2010, rev "b"
1-Z-L3844	XD-D120win	18.11.2010, rev "b"
1-Z-L3845	XD-D120L	18.11.2010, rev "b"
1-Z-L3846	XD-D120win	18.11.2010, rev "b"
1-Z-L3847	XD-D120H	18.11.2010, rev "b"
1-Z-L3848	XD-D120Hwin	18.11.2010, rev "b"
1-Z-L4060	XDE-D120L	18.11.2010, rev "a"
1-Z-L4061	XDE-D120win	18.11.2010, rev "a"
1-Z-L4062	XDE-D120	18.11.2010, rev "a"
1-Z-L4063	XDED120win	18.11.2010, rev "a"
1Z-L4064	XDE-D120H	18.11.2010, rev "a"
1Z-L4065	XDE-D120Hwin	18.11.2010, rev "a"

Responsible person:


Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 15.01.2011

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



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

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

(3) EC-Type Examination Certificate Number:

FTZÚ 08 ATEX 0182U

(4) Component: **Universal instrument housing type XD-D120L, XD-D120Lwin, XD-D120, XD-D120win, XD-D120H, XD-D120Hwin**

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

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

(7) This supplement of certificate is valid for: - new model (variant) – extension of series,
model **XDE-D120**** series

(8) Modification of certified component 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 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 60079-0:2006; EN 60079-1:2007; EN 60079-7:2007;

(11) Marking of component shall contain symbols:

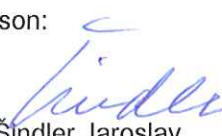
 **II2G Ex d IIC Gb**

 **II2G Ex de IIC Gb**

 **II2D Ex t IIIC Db**

(12) This type examination certificate is valid till: **30.11.2013**

Responsible person:


Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: **9.11.2009**

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

(13) **Schedule**

(14) **Supplement No. 1 to
EC-Type Examination Certificate N° FTZÚ 08 ATEX 0182U**

(15) Description of Component:

Additional version of the housing types XDE-D120** with instrument chamber of the housing is designed as flameproof protection Ex d, whilst electric power supply chamber (terminal box) is designed as increase safety Ex e.

(16) Report No. : 08/0182-D1

(17) Schedule of limitations:

The special conditions mentioned in the main document are valid in whole range.

17.1 The ATEX certified wire bushing has to be used for XDE-D120**series.

(18) Essential Health and Safety Requirements:

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

Responsible person:


Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 9.11.2009

Number of pages: 3

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**Physical Technical Testing Institute
Ostrava-Radvanice**

(13)

Schedule

(14)


**Supplement No. 1 to
EC-Type Examination Certificate N° FTZÚ 08 ATEX 0182U**

(19)

LIST OF DOCUMENTATION

Documentation:	Description:	Update date
N-L3795	Application manual	20.07.2009
1-Z-L3843	change "a"	02.06.2009
1-Z-L3844	change "a"	02.06.2009
1-Z-L3845	change "a"	02.06.2009
1-Z-L3846	change "a"	02.06.2009
1-Z-L3847	change "a"	02.06.2009
1-Z-L3848	change "a"	02.06.2009
1-Z-L4060		21.07.2009
1-Z-L4061		21.07.2009
1-Z-L4062		21.07.2009
1-Z-L4063		21.07.2009
1-Z-L4064		21.07.2009
1-Z-L4065		21.07.2009
Data sheet		
XD-D120L		28.05.2009
XD-D120		28.05.2009
XD-D120H		28.05.2009
XD-D120Lwin		28.05.2009
XD-D120win		28.05.2009
XD-D120Hwin		28.05.2009
XDE-D120L		20.07.2009
XDE-D120		20.07.2009
XDE-D120H		20.07.2009
XDE-D120Lwin		20.07.2009
XDE-D120win		20.07.2009
XDE-D120Hwin		20.07.2009

Responsible person:


Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 9.11.2009

Number of pages: 3

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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 08 ATEX 0182U

(4) Component: **Universal instrument housing type XD-D120L, XD-D120Lwin, XD-D120,
XD-D120win, XD-D120H, XD-D120Hwin**

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

(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°

08/0182 dated September 2008

(9) Compliance with Essential Health and Safety Requirements has been assured by compliance with:
EN 60079-0:2006; EN 60079-1:2008; EN 61241-0:2006; EN 61241-1:2004;

(10) 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.

(11) 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.

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

 **II 2G Ex d IIC**

 **II 2D Ex tD A21**

This EC-Type Examination Certificate is valid till: **31.10.2013**

Responsible person:


Dipl. Ing. Šindler Jaroslav
Head of certification body

Date of issue: **10.10.2008**

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

(13)

Schedule

(14) EC-Type Examination Certificate N° FTZÚ 08 ATEX 0182U

(15) Description of Component:

The XD-D120... series are designed to accommodate various electronic instruments or devices working in hazardous areas with flammable gases, vapours and dusts.

The enclosure which consist of two compartments and covers are made of aluminium pressure die-casting (Mg<6%). The covers are locked by screw with hex socked using hex spanner. An earth terminal is placed on the body of enclosure.

The covers are fixed to the body by thread M120x2. The covers are sealed by "O" ring. The cover on the instrumental housing is alternatively designed with inspection window made of floated glass.

The threaded hole D₅, D₄, D₃, D₂ for flameproof cable gland M20x1,5, M24x1,5, M25x1,5, G1/2", BSP1/2", G3/4", BSP3/4", 1/2"NPTmod or 3/4"NPTmod are prepared on the body of enclosure.

The threaded hole D₁ M20x1,5, M24x1,5, M25x1,5, M27x2, G1/2", BSP1/2", G3/4", BSP3/4", G1, BSP1, 1/2"NPTmod, 3/4"NPTmod, 1NPTmod or smooth hole Ø27,1H8 is prepared for thermowell or sensor measuring insert.

The enclosure is coated by chemically resistant epoxy or polyurethane paint.

(16) Report No. : 08 / 0182

(17) Schedule of Limitations:

17.1 -40°C <Tserv. >150°C for XD-D120

17.2 -40°C <Tserv. > 85°C for XD-D120win

17.3 IP protection 54 to 68 – is depend on applied cable gland.(IP 68 - 1m deep).

17.4 The overpressure test was made with 50 bar (the routine test is not necessary to do).

17.5 Max. power dissipation for temperature class T5 and T6 are as follow:

XD-D120, XD-D120win

Max. power dissipation (W)						
Tamb	Temp. class T6 85°C	Pztr (W)		Temp. class T5 100°C	Pztr (W)	
		Cover with windows horizontally/vertically low cover	Cover with windows horizontally/vertically high cover		Cover with windows horizontally/vertically low cover	Cover with windows horizontally/vertically high cover
40 °C	Δθ ≤ 40 K	45,0 / 36,0	33,0 / 24,0	Δθ ≤ 55 K	63,0 / 51,0	47,0 / 36,0
55°C	Δθ ≤ 25 K	26,0 / 18,0	19,0 / 15,0	Δθ ≤ 40 K	45,0 / 36,0	33,0 / 24,0
70°C	Δθ ≤ 10 K	8,9 / 6,3	6,9 / 4,8	Δθ ≤ 25 K	26,0 / 19,0	19,0 / 15,0
85°C	N.A.	--	--	Δθ ≤ 10 K	8,9 / 6,3	6,9 / 4,8

(18) Essential Health and Safety Requirements:

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

Responsible person:

Date of issue: 10.10.2008

Dipl. Ing. Šindler Jaroslav
Head of certification body

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Physical Technical Testing Institute
Ostrava-Radvanice

(13)

Schedule

(14) **EC-Type Examination Certificate N° FTZÚ 08 ATEX 0182U**

(19)

LIST OF DOCUMENTATION

<i>Drawing:</i>	<i>Title:</i>	<i>dated:</i>
N-L3795	Application manual	12.06.2008
XD-D120	Data sheet	11.06.2008
XD-D120L	Data sheet	11.06.2008
XD-D120H	Data sheet	11.06.2008
XD-D120win	Data sheet	11.06.2008
XD-D120Lwin	Data sheet	11.06.2008
XD-D120Hwin	Data sheet	11.06.2008
1-Z-L3843	XD-D120L	07.02.2008
1-Z-L3844	XD-D120Lwin	07.02.2008
1-Z-L3845	XD-D120	07.02.2008
1-Z-L3846	XD-D120win	07.02.2008
1-Z-L3847	XD-D120H	07.02.2008
1-Z-L3848	XD-D120Hwin	07.02.2008
4-L4007	Blanking element	27.05.2008
OIT-17/03	Threated NPTmod	31.08.2005

Responsible person:

Date of issue: 10.10.2008


Dipl. Ing. Šindler Jaroslav
Head of certification body

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