



(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 0181U

(4) Product: **Universal instrument housing type
XD-120, XD-120win, XD-120L, XD-120Lwin, XD-120H, XD-120Hwin**

(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 0181U 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

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**

(12) This certificate is valid till: **31.10.2028**

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 31.10.2023

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Physical-Technical Testing Institute
Ostrava - Radvanice

(13) **Schedule**

(14) **Supplementary EU - Type Examination Certificate No. 4
to FTZÚ 08 ATEX 0181U**

(15) Description of the variation to the Product:

The subject of this supplementary certificate is:

- Extension of certificate validity.

The construction and electrical parameters of certified product remain unchanged.

(16) Report Number: 08/0181/4

(17) Schedule of Limitations:

1. Max. number, size and position of apertures – see Application manual. N-L3858 dated 04.09.2023.
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 about dimension of flameproof joints it is necessary to contact manufacturer of component.
4. An apparatus installed inside of this Ex component can has any layout, which ensures, that in any cross-section area shall be at least 40% of area free.
5. Service temperature according to housing type and used sealing ring:
XD-120:
-40°C to +150°C – VMQ rubber
-20°C to +200°C – FKM rubber
XD-120win:
-40°C to +85°C – VMQ rubber
-20°C to +85°C – FKM rubber
6. The empty enclosure is applicable for electrical apparatus, designed for ambient temperature not exceeding following range:
a) XD-120 from -40°C to +200°C
b) XD-120win from -40°C to +85°C
7. The empty enclosure must be installed to avoid a risk from propagating brush discharges for application in explosive dust atmosphere.
8. The enclosure may be equipped with Ex-equipment cable glands or Ex- equipment blanking elements with type of Ex-protection according to Ex marking in certificate and with minimum IP code IP 6X.
9. The flameproof enclosure was tested by over pressure static test with 52 bars (4x Ref. pressure).

Responsible person:

Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 31.10.2023

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Physical-Technical Testing Institute
Ostrava - Radvanice

(13)

Schedule

(14) **Supplementary EU - Type Examination Certificate No. 4
to FTZÚ 08 ATEX 0181U**

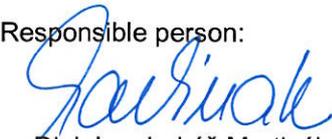
(18) Essential Health and Safety Requirements:

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-L3858	--	7	04.09.2023	Application manual
--	--	3	04.09.2023	Datasheet XD-120
1-Z-L3805	d	1	04.09.2023	Drawing XD-120L
1-Z-L3806	d	1	04.09.2023	Drawing XD-120Lwin
1-Z-L3807	d	1	04.09.2023	Drawing XD-120
1-Z-L3808	d	1	04.09.2023	Drawing XD-120win
1-Z-L3809	d	1	04.09.2023	Drawing XD-120H
1-Z-L3810	d	1	04.09.2023	Drawing XD-120Hwin
1-Z-L4382	a	1	04.09.2023	Drawing XD-120Lwin10

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 31.10.2023

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tel.: +420 595 223 111, +420 604 203 525, e-mail: ftzu@ftzu.cz, www.ftzu.cz



(1) **Supplementary EU - Type Examination Certificate No.3**

(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 0181U

(4) Product: **Universal instrument housing type
XD-120, XD-120win, XD-120L, XD-120Lwin, XD-120Lwin10, XD-120H, XD-120Hwin**

(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 0181U 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 60079-0:2018, 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: **31.10.2023**

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 16.10.2018

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

Schedule

(13)

(14) **Supplementary EU - Type Examination Certificate No. 3
to FTZÚ 08 ATEX 0181U**

(15) Description of the variation to the Product:

The subject of this supplementary certificate is:

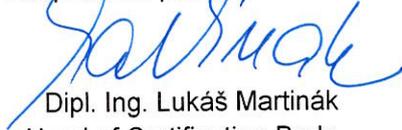
- Modification of certified apparatus:
 - o introducing table of flameproof joints in the drawings;
 - o new version of housing XD-120Lwin with thinner glass 10 mm (marked as XD-120Lwin10).
- Evaluation according to the newest standards: EN 60079-0:2018, EN 60079-1:2014 and EN 60079-31:2014.
- Prolongation of certificate validity.

(16) Report Number.: 08/0181/3

(17) Schedule of Limitations:

1. For information about dimension of flameproof joints it is necessary to contact manufacturer of product.
2. Max. number, size and position of apertures – see cl. (19) in this document.
3. An apparatus installed inside of this Ex component can has any layout, which ensures, that in any cross-section area shall be at least 40% of area free.
4. Service temperature according to housing type and used sealing ring:
 - XD-120:
 - 40°C to +150°C – VMQ rubber
 - 20°C to +200°C – FKM rubber
 - XD-120win:
 - 40°C to +85°C – VMQ rubber
 - 20°C to +85°C – FKM rubber
5. The enclosure may be equipped with Ex-equipment cable glands or Ex-equipment blanking elements with type of Ex-protection according to Ex marking in certificate and with minimum IP code IP 6X.

Responsible person;


Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 16.10.2018

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

(13) **Schedule**

(14) **Supplementary EU - Type Examination Certificate No. 3
to FTZÚ 08 ATEX 0181U**

(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	Sheets	Issue	Date	Description
N-L3858	7	--	13.03.2018	Application Manual
	3	--	13.03.2018	XD-120 Data sheet
1-Z-L3805	--	rev. c	12.03.2018	Drawing XD-120L
1-Z-L3806	--	rev. c	12.03.2018	Drawing XD-120Lwin
1-Z-L3807	--	rev. c	12.03.2018	Drawing XD-120
1-Z-L3808	--	rev. c	12.03.2018	Drawing XD-120win
1-Z-L3809	--	rev. c	12.03.2018	Drawing XD-120H
1-Z-L3810	--	rev. c	12.03.2018	Drawing XD-120Hwin
1-Z-L4382	--	--	12.03.2018	Drawing XD-120Lwin10

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 16.10.2018

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(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 08 ATEX 0181U

(4) Component: **Universal instrument housing
type XD-120, XD-120win, XD-120L, XD-120Lwin, XD-120H, XD-120Hwin**

(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

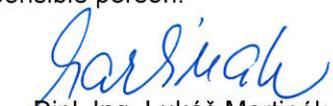
(11) Marking of component shall contain symbols:

 **II 2G Ex d IIC Gb**

 **II 2D Ex tb IIIC Db**

(12) This type examination certificate is valid till: **31.10.2018**

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 31.10.2013

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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 0181U**

(15) Description of Component:

Modification of the instrument housing consists of alternative using the rubber type FKM for service temperature from -20°C to +200°C and the degree of IP protection was changed from IP 68 to IP 65. The types of instrument housing are recertified according to standards EN 60079-0:2012; EN 60079- 1:2007 and EN 60079-31:2009.

(16) Report No.: 08/0181-D2 dated 30.10.2013

(17) Schedule of Limitations:

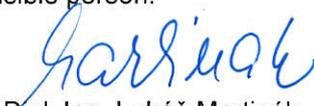
- 17.1 The special conditions described in main document and the supplement No. 1 are valid in whole range.
- 17.2 Max. number, size and position of apertures – see (19) of this supplement.
- 17.3 The enclosure with Ex component certificate shall be applied only by assumption of filling requests of the standard EN 60079-1:2009 cl.D.3.10;
- 17.4 Service temperature according housing type and used sealing ring:

Housing type	Tserv.	
	VMQ rubber	FKM rubber
XD-120, XD-120L, XD-120H	-40°C to +150°C	-20°C to +200°C
XD-120win, XD-120Lwin, XD-120Hwin	-40°C to +85°C	-20°C to +85°C

(18) Essential Health and Safety Requirements:

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

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 31.10.2013

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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 0181U

(19) List of Documentation:

<i>Title</i>	<i>Drawing No.</i>	<i>Date</i>	<i>Revision</i>
Application manual	N-L3858	12.10.2012	
Data sheet	XD-120...	10.10.2012	
XD-120	1-Z-L3807	15.11.2012	b
XD-120L	1-Z-L3805	15.11.2012	b
XD-120H	1-Z-L3809	15.11.2012	b
XD-120win	1-Z-L3808	15.11.2012	b
XD-120Lwin	1-Z-L3806	15.11.2012	b
XD-120Hwin	1-Z-L3810	15.11.2012	b

Responsible person:



Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 31.10.2013

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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 08 ATEX 0181U

(4) Component: **Universal instrument housing type XD-120L; XD-120Lwin; XD-120;
XD-120win; XD-120H; XD-120Hwin**

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

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

(7) This supplement of certificate is valid for: - prolongation of certificate validity

(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 requirement, which manufacturer shall fulfil before products are placed on market or introduced in service.

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

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

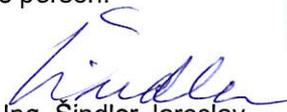
(11) Marking of component shall contain symbols:

 **II 2G Ex d IIC Gb**

 **II 2D Ex t IIC Db**

(12) This type examination certificate is valid till: **30.09.2016**

Responsible person:


Dipl. Ing. Sindler Jaroslav
Head of certification body



Date of issue: 30.09.2011


Number of pages: 3
Page: 1/3

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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 0181U**

(15) Description of Component:

The subject of this supplement is prolongation of certificate validity for instrument housing XD-120L, XD-120Lwin, XD-120, XD-120win, XD-120H, XD-120Hwin according to currently valid standards.

(16) Report No. : 08/0181-D1

2 pages

(17) Schedule of limitations:

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

17.2 Maximum design gaps of flameproof joints are smaller than maximum permitted gaps according to standard. Verified values of design gaps are mentioned in documentation.

(18) Essential Health and Safety Requirements:

Covered by standards mentioned in (10).

Responsible person:

Dipl. Ing. Šindler Jaroslav

Head of certification body



Date of issue: 30.09.2011

Page: 2/3

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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 0181U

(19) LIST OF DOCUMENTATION

<i>Title:</i>	<i>Drawing No.:</i>	<i>Date:</i>
Application manual	N-L3858	29.07.2011
Data sheet	XD-120	29.07.2011
XD120L	1-Z-L3805 - rev. a	26.07.2011
XD120win	1-Z-L3806 - rev. a	26.07.2011
XD-120	1-Z-L3807 - rev. a	26.07.2011
XD-120win	1-Z-L3808 - rev. a	26.07.2011
XD-120H	1-Z-L3809 - rev. a	26.07.2011
XD-120Hwin	1-Z-L3810 - rev. a	26.07.2011

Responsible person:



Date of issue: 30.09.2011


Dipl. Ing. Šindler Jaroslav

Head of certification body

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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 0181U

- (4) Component: **Universal instrument housing type XD-120L, XD-120Lwin, XD-120, XD-120win, XD-120H, XD-120Hwin**
- (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°

08/0181 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: **30.09.2013**

Responsible person:


Dipl. Ing. Sindler Jaroslav
Head of certification body



Date of issue: 25.09.2008

Number of pages: 3
Page: 1/3

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Physical Technical Testing Institute Ostrava-Radvanice

(13)

Schedule

(14) **EC-Type Examination Certificate N° FTZÚ 08 ATEX 0181U**

(15) Description of Component:

The XD-120...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 compartment and cover is made of aluminium pressure die-casting (Mg<6%). The covers is locked by screw with hex socked using hex spanner.

An earth terminal is placed on the body of enclosure. The cover is fixed to the body by thread M120x2. The cover is sealed by "O" ring. The cover is alternatively designed with inspection window made of floated glass.

The conduit opening D2, D3 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 conduit opening D1 M20x1,5, M24x1,5, M25x1,5, M27x2, G1/2", BSP1/2", G3/4", BSP3/4", 1/2"NPT, 3/4"NPT or smooth hole Ø 27,1 H8 is prepared for thermowell or sensor measuring insert .

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

(16) Report No. : 08 / 0181

(17) Schedule of Limitations:

17.1 -40°C <Tserv. >150°C for XD-120

17.2 -40°C <Tserv. > 85°C for XD-120win

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

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

XD-120, XD-120win

Tamb	Temp. class T6 85°C	Max. power dissipation (W)				
		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	$\Delta\theta \leq 40$ K	26,0 / 18,0	32,0 / 26,0	$\Delta\theta \leq 55$ K	36,0 / 27,0	51,0 / 40,0
55°C	$\Delta\theta \leq 25$ K	15,0 / 11,0	20,0 / 16,0	$\Delta\theta \leq 40$ K	26,0 / 18,0	32,0 / 26,0
70°C	$\Delta\theta \leq 10$ K	4,9 / 3,8	6,8 / 5,2	$\Delta\theta \leq 25$ K	15,0 / 11,0	20,0 / 16,0
85°C	N.A.	--	--	$\Delta\theta \leq 10$ K	4,9 / 3,8	6,8 / 5,2

(18) Essential Health and Safety Requirements:

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

Responsible person:

Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 25.09.2008

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Physical Technical Testing Institute
Ostrava-Radvanice

(13)

Schedule

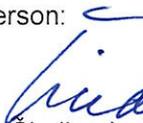
(14) **EC-Type Examination Certificate N° FTZÚ 08 ATEX 0181U**

(19)

LIST OF DOCUMENTATION

<i>Drawing:</i>	<i>Title:</i>	<i>Dated:</i>
N-L3858	Application manual	12.06.2008
XD-120	Data sheet	11.06.2008
XD-120L	Data sheet	12.06.2008
XD-120H	Data sheet	12.06.2008
XD-120win	Data sheet	11.06.2008
XD-120Lwin	Data sheet	11.06.2008
XD-120Hwin	Data sheet	12.06.2008
1-Z-L3805	XD120L	25.07.2007
1-Z-L3806	XD120Lwin	25.07.2007
1-Z-L3807	XD-120	25.07.2007
1-Z-L3808	XD-120win	25.07.2007
1-Z-L3809	XD-120H	25.07.2007
1-Z-L3810	XD-120Hwin	25.07.2007

Responsible person:


Dipl. Ing. Šindler Jaroslav
Head of certification body



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