



(1) **Supplementary EU - Type Examination Certificate No.7**

(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 05 ATEX 0262U

(4) Product: **Universal box type XD-JB85, XD-JB85win, XD-JB85I, XD-JB85Iwin,**

(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 05 ATEX 0262U 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: **31.08.2027**

Responsible person:

Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 19.08.2022

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Physical-Technical Testing Institute
Ostrava - Radvanice

(13) **Schedule**

(14) **Supplementary EU - Type Examination Certificate No. 7
to FTZÚ 05 ATEX 0262U**

(15) Description of the variation to the Product:

The subject of this supplementary certificate is:

- Evaluation according to the newest standard EN IEC 60079-0:2018;
- Extension of certificate validity.

The Universal box type XD-JB85, XD-JB85win, XD-JB85I, XD-JB85Iwin is verified according to the newest standard EN IEC 60079-0:2018.

The design of flameproof enclosure remains unchanged.

(16) Report Number: 05/0262/7

(17) Schedule of Limitations:

1. Service temperature range for type of housing and used sealing ring:

XD-JB85, XD-JB85I:

- 40°C to +100°C ("O" ring, Tefabloc TPE rubber)
- 40°C to +150°C ("O" ring, VMQ-silicon rubber)
- 20°C to +200°C ("O" ring, FKM-VR1 rubber)

XD-JB85win, XD-JB85Iwin:

- 40°C to +85°C ("O" ring, Tefabloc TPE rubber, "O" ring, VMQ-silicon rubber)
- 20°C to +85°C ("O" ring, FKM-VR1 rubber)

2. The empty enclosure is applicable for electrical apparatus, designed for ambient temperature not exceeding following range:

- a) XD-JB85, XD-JB85I from -40°C to +200°C;
- b) XD-JB85win, XD-JB85Iwin from -40°C to +85°C.

3. Max. numbers of holes, their size and position are given in Application manual nr. N-L3045.

4. Devices installed inside of enclosure can have any lay-out, which ensures, that in any cross-section area will be least 40% (group IIC) of area free.

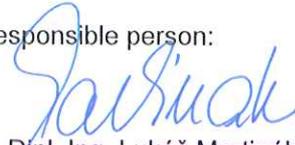
5. For information on the dimensions of the flameproof joints the manufacturer shall be contacted.

6. Appropriate certify cable glands and blanking elements for direct entry have to be used.

7. The empty enclosure must be installed to avoid a risk from propagating brush discharges for application in explosive dust atmosphere.

8. It is not allowed to install circuit breaker or contactors with oil filling and rotating apparatus producing turbulence inside of the enclosure.

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 19.08.2022

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Physical-Technical Testing Institute
Ostrava - Radvanice

(13) **Schedule**

(14) **Supplementary EU - Type Examination Certificate No. 7
to FTZÚ 05 ATEX 0262U**

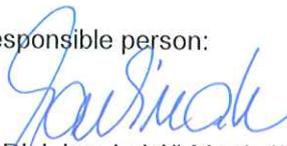
(18) Essential Health and Safety Requirements:

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	Issue	Sheets	Date	Description
N-L3045	--	7	16.02.2022	Application manual
--	--	2	15.02.2022	Data sheet XD-JB85
2-Z-L2453	d	1	10.02.2022	Drawing XD-JB85
2-Z-L2454	d	1	10.02.2022	Drawing XD-JB85win
2-Z-L3788	d	1	10.02.2022	Drawing XD-JB85I
2-Z-L3789	d	1	10.02.2022	Drawing XD-JB85Iwin

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 19.08.2022

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(1) **Supplementary EU - Type Examination Certificate No.6**

(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 05 ATEX 0262U

(4) Product: **Model XD-JB85, XD-JB85win, XD-JB85I, XD-JB85Iwin universal box**

(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 05 ATEX 0262U 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+A11:2013, EN 60079-1:2014, EN 60079-31:2014

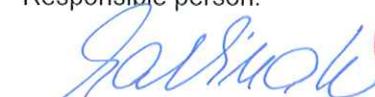
(11) The marking of the product shall include the following:

 **II 2G Ex db IIC Gb**

 **II 2D Ex tb IIIC Db**

(12) This certificate is valid till: **31.08.2022**

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 29.08.2017

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

(13)

Schedule

(14) **Supplementary EU - Type Examination Certificate No. 6
to FTZÚ 05 ATEX 0262U**

(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 box type XD-JB85, XD-JB85win, XD-JB85I, XD-JB85Iwin is verified according to the standards EN 60079-0:2012+A11:2013, EN 60079-1:2014 and EN 60079-31:2014.

The design of flameproof enclosure is without changes.

(16) Report Number.: 05/0262/6

(17) Schedule of Limitations:

1. Max. number, size and position of apertures – are given in Application manual N-L3045 dated 31.03.2017.
2. For information on the dimensions of the thread flameproof joints the manufacturer shall be contacted.
3. The enclosure with Ex component certificate shall be applied only by assumption of filling requests of the standard IEC 60079-1:2014 cl.D.3.10.
4. 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.
5. Appropriate certify cable glands for direct entry has to be used.
6. Service temperature according housing type and used sealing ring:

Type housing	T _{service} .		
	o-ring type TPE	o-ring type VMQ	o-ring type FKM
XD- JB85; XD-JB85I	-40°C to +100°C	-40°C to +150°C	-20°C to +200°C
XD-JB85win; XD-JB85Iwin	-40°C to +85°C	-40°C to +85°C	-20°C to +85°C

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 29.08.2017

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Physical-Technical Testing Institute
Ostrava - Radvanice

(13)

Schedule

(14) **Supplementary EU - Type Examination Certificate No. 6
to FTZÚ 05 ATEX 0262U**

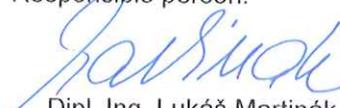
(18) Essential Health and Safety Requirements:

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

(19) Drawings and Documents:

Number	Sheets	Issue	Date	Description
N-L3045	7	--	31.03.2017	Application manual
--	1	--	30.03.2017	Datasheet
2-Z-L2453	1	c	30.03.2017	Drawing XD-JB85
2-Z-L2454	1	c	30.03.2017	Drawing XD-JB85win
2-Z-L3788	1	c	30.03.2017	Drawing XD-JB85I
2-Z-L3789	1	c	30.03.2017	Drawing XD-JB85Iwin

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 29.08.2017

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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 05 ATEX 0262U

(4) Component: **Model XD-JB85, XD-JB85win, XD-JB85I, XD-JB85Iwin universal box**

(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
- recertification according to the 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 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 60079-31:2009

(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: **31.08.2017**

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of certification body



Date of issue: 31.08.2012

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

(13) **Schedule**

(14) **Supplement No. 5 to
EC-Type Examination Certificate N° FTZÚ 05 ATEX 0262U**

(15) Description of Component:

Modification of the universal box consists of using M and NPT threads only and was changed the length from 13mm to 16,2mm for NPT thread.

The types of universal box are recertified according to standards EN 60079-0:2009; EN 60079-1:2007 and EN 60079-31:2009.

(16) Report No. : 05/0262-D5

dated 30.08.2012

(17) Schedule of Limitations:

17.1 The special conditions described in main document and the supplements No. 1÷4 are valid in whole range.

17.2 Max. number, size and position of apertures – see documentation – cl. (19) of this supplement;

17.3 The enclosure with Ex component certificate can be applicant 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.		
	o-ring TPE rubber	o-ring VMQ rubber	o-ring FKM rubber
XD-JB85 XD-JB85I	-40°C to +100°C	-40°C to +150°C	-20°C to +200°C
XD-JB85win XD-JB85Iwin	-40°C to +85°C	-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.

(19) LIST OF DOCUMENTATION

Drawing No.:	Description	Date	Revision
N-L3045	Application manual	23.03.2012	
2-Z-L2453	Universal box XD-JB85	30.03.2012	b
2-Z-L2454	Universal box XD-JB85win	30.03.2012	b
2-Z-L3788	Universal box XD-JB85I	30.03.2012	b
2-Z-L3789	Universal box XD-JB85Iwin	30.03.2012	I b
Data sheet	XD-JB85	23.03.2012	

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of certification body



Date of issue: 31.08.2012

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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 05 ATEX 0262U

(4) Equipment: **Model XD-JB85, XD-JB85win, XD-JB85I, XD-JB85Iwin universal box**

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

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

(7) This supplement of certificate is valid for: - a new variation of the enclosure
- prolongation of certificate validity and 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 60079-0:2006; EN 60079-1:2007; EN 61241-0:2006; EN 61241-1:2004

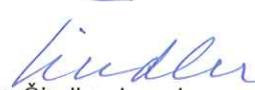
(11) Marking of equipment shall contain symbols:

 **II 2G Ex d IIC**

 **II 2D Ex tD A21**

(12) This type examination certificate is valid till: **31.10.2014**

Responsible person:


Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 15.10.2009

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 05 ATEX 0262U**

(15) Description of variation to the Equipment:

It was introduced an additional "O" ring rubbers:

- Tefabloc TPE, for temperature range of the box -40 to +100°C;
- Fluoroelastomer FKM-VR1, for temperature range of the box -20 to +200°C;

Further was changed dimension of "O" ring from 82x3 to 82,1x3,5 mm.

It was introduced additional way of plugging connectors by closing in casting process.

(16) Report No. : 05/0262-D4

(17) Special conditions for safe use:

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

(18) Essential Health and Safety Requirements:

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

The housing was tested with the "O" rings made from Tefablock and FKM rubber.

(19) LIST OF DOCUMENTATION

<i>Drawing No.:</i>	<i>Description</i>	<i>Date</i>	<i>Revision</i>
N-L3045	Application manual	05.05.2009	a
2-Z-L2453	Universal box XD-JB85	05.05.2009	a
2-Z-L2454	Universal box XD-JB85win	05.05.2009	a
2-Z-L3788	Universal box XD-JB85I	05.05.2009	a
2-Z-L3789	Universal box XD-JB85Iwin	05.05.2009	
	Characteristic of TPE tefabloc TO SI 423 Rubber		
	Characteristic of FKMVR1 Rubber		
Data sheet	XD-JB85	05.05.2009	
Data sheet	XD-JB85win	05.05.2009	
Data sheet	XD-JB85I	05.05.2009	
Data sheet	XD-JBIwin	05.05.2009	

Responsible person:


Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 15.10.2009

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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 05 ATEX 0262U

(4) Equipment: **Model XD-JB85, XD-JB85win, XD-JB85I, XD-JB85Iwin universal box**

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

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

(7) This supplement of certificate is valid for: - a new variation of the enclosure
- prolongation of certificate validity and recertification according to the new standard

(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:

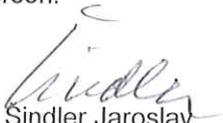
EN 60079-0:2004; EN 60079-1:2004; EN 61241-0:2006; EN 61241-1:2004

(11) Marking of equipment shall contain symbols:

 **II 2GD Ex d tD IIC**

(12) This type examination certificate is valid till: **30 June 2012**

Responsible person:


Dipl. Ing. Sindler Jaroslav
Head of certification body



Date of issue: 04.06.2007

Number of pages: 2

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Physical Technical Testing Institute
Ostrava-Radvanice

(13)

Schedule

(14)

Supplement No. 3 to
EC-Type Examination Certificate N° FTZÚ 05 ATEX 0262U

(15) Description of variation to the Equipment:

The instrument housing XD-JB85 and XD-JB85win, XD-JB85I and XD-JB85Iwin are recertified according to standards EN 61241-0:2006 and EN 61241-1:2004.

Further in the enclosure model XD-JB85I and XD-JB85Iwin is increased length of three bosses for inner mounting holes. This enables vary spacing of mounting holes within diameter 70 to 58 mm.

(16) Report No. : 05/0262-D3

(17) Special conditions for safe use:

17.1 The special conditions described in main document and the Supplement No.1 and 2 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 successional standards EN 61241-0 and EN 61241-1 as that which were made acc. Standards EN 50281-1-1:1998.

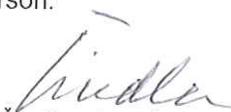
The housing was tested with overpressure 45 bar according to cl. 15.1.3.1 Standard EN 60079-1.

No routine test is required when reference pressure of final assembly is not higher than 11,2 bars.

(19) LIST OF DOCUMENTATION

- | | | |
|---|---------|------------|
| • Application manual No. N-L 3045 | updated | 14.05.2007 |
| • Data sheet for XD-JB85I and XD-JB85Iwin | dated | 05.2007 |
| • Drawings No.: 2-Z-L3788 | dated | 14.05.2007 |
| 2-Z-L3789 | dated | 14.05.2007 |

Responsible person:


Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 04.06.2007

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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 05 ATEX 0262U

(4) Equipment: **Model XD-JB85, XD-JB85win, universal box**

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

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

(7) This supplement of certificate is valid for: - change in the organisation of the manufacturer
- prolongation of certificate validity according
EN 60079-0 and EN 60079-1

(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 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: **28 February 2012**

Responsible person:

Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 06.02.2007

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 05 ATEX 0262U

(15) Description of variation to the Equipment:

The organisation of the manufacturer is changed from Sp.z.o.o. to S.A.

The instrument housing XD-JB85 and XD-JB85win are recertified according standards EN 60079-0:2004 and EN 60079-1:2004.

(16) Report No. : 05/0262, change on page 5/38
05/0262 – D2

(17) Special conditions for safe use:

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

(18) Essential Health and Safety Requirements:

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

18.2 Any relevant tests are not necessary to do according successional standards EN 60079-0 and EN 60079-1 as that which were made acc. standards EN 50014 and EN 50018.

(19) LIST OF DOCUMENTATION

- Application manual No. L 3045 updated 17.01.2007
- Data sheet for XD-JB85 and XD-JB85win updated 01.2007

Responsible person:

Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 06.02.2007

Number of pages: 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 05 ATEX 0262U

(4) Equipment: **Model XD-JB85, XD-JB85win, universal box**

(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

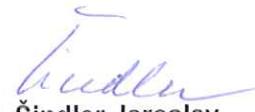
EN 50281-1-1:1998

(11) Marking of equipment shall contain symbols:

 **II 2GD EEx d IIC**

(12) This type examination certificate is valid till: **30 November 2010**

Responsible person:


Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 26.09.2006

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 05 ATEX 0262U**

(15) Description of variation to the Equipment:

The instrument housing XD-JB85 and XD-JB85win was tested on max. power dissipation. Regarding to this results is to this enclosure assorted temperature class T6 and T5.

(16) Report No. : 05/0262

(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	Δ 0≤40 K	13,5 / 10,0	Δ 0≤55 K	18,5 / 15,5
55°C	Δ 0≤25 K	7,5 / 6,0	Δ 0≤40 K	13,5 / 10,0
70°C	Δ 0≤10 K	2,8 / 1,9	Δ 0≤25 K	7,5 / 6,0
85°C	N.A.	--	Δ 0≤10 K	2,8 / 1,9

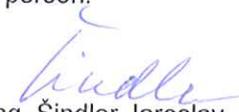
(18) Essential Health and Safety Requirements:

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

(19) LIST OF DOCUMENTATION

Without documentation

Responsible person:


Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 26.09.2006

Number of pages: 2
Page: 2/2

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Physical Technical Testing Institute
Ostrava-Radvanice



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 05 ATEX 0262U

(4) Component: **Model XD-JB85, XD-JB85win, universal box**

(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°
05/0262 dated October 2005

(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: **30 November 2010**

Responsible person:


Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 10 November 2005

Number of pages: 1/4

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Physical Technical Testing Institute
Ostrava-Radvanice

(13)

Schedule

(14) **EC-Type Examination Certificate N° FTZÚ 05 ATEX 0262U**

(15) Description of Component:

Universal box **XD-JB85, XD-JB85win** is intended to accommodate different electronics devices for working in hazardous areas with flammable gases, vapours and dusts.

The body and cover of the enclosure are made of aluminium pressure die-casting (Mg<6%).

The cover is locked by screw with hex socket using hex spanner.

The cover is fixed to the body by thread M85x2 6H/6g. Each cover is sealed by "O" ring.

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

The earth terminals are placed inside and outside of the body of enclosure.

The threaded holes for flameproof cable gland are prepared on the body of enclosure and can have parallel type threads: **M... , G...,BSP...** or taper threads type : **Rc...mod, BSPT...mod, ...NPTmod.**

The threaded hole are prepared in the body for thermowell or sensor, and can have parallel threads type **M... , G...,BSP...** or taper threads type: **Rc...mod, BSPT...mod, ...NPTmod.**

The taper NPT and Rc threads are 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.

In cover designed for housing type XD-JB85 and XD-JB85win 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 clients.

The enclosure is coated by chemically resistant paint.

The unused holes can be blinded with a certified stopping plug.

(16) Report No. : 05/0262

(17) Schedule of Limitations:

17.1 -40°C < Tserv > 100°C for universal box XD-JB85

17.2 -40°C < Tserv > 85°C for universal box XD-JB85win

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:


Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 10 November 2005

Number of pages: 2/4

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Physical Technical Testing Institute
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(13)

Schedule

(14) EC-Type Examination Certificate N° FTZÚ 05 ATEX 0262U

(19)

LIST OF DOCUMENTATION

- Application manual N-L3045 dated 29.08.2005
- Catalogue sheets: EEx d universal box type XD-JB85
EEx d universal box type XD-JB85win
- Drawings N°: 2-Z-L2453 dated 08.08.2005
2-Z-L2454 dated 08.08.2005
- Aluminium specification
- Resistance of paint coatings to aggressive chemical agents and environment
- Earth terminals, protection terminals (ETM-4 a PTM-1.5)
- Seal rubber specification
- Taper threads for explosionproof/flameproof 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





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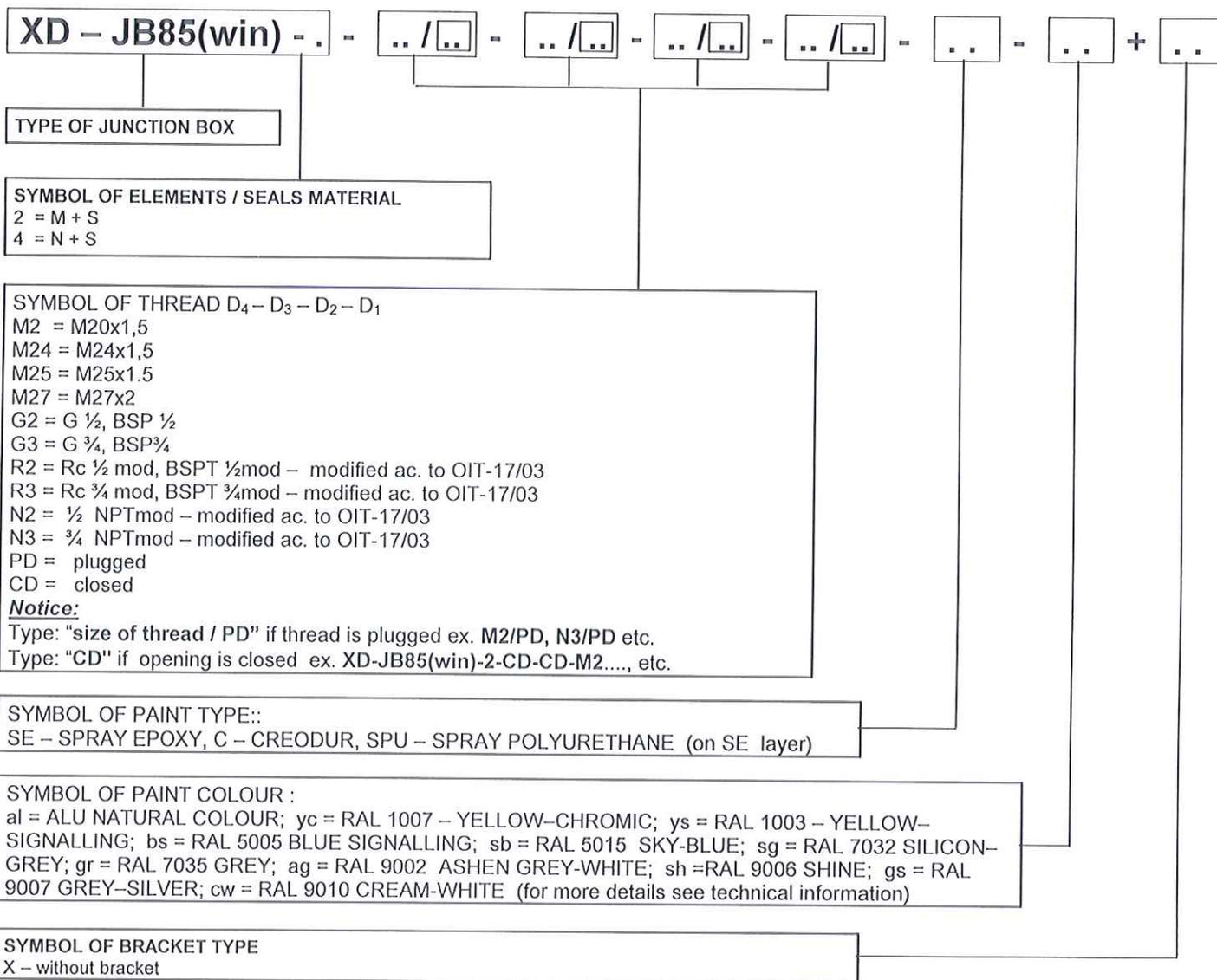
(13)

Schedule

(14) EC-Type Examination Certificate N° FTZÚ 05 ATEX 0262U

(20)

TYPE KEY



SAMPLE:

STANDARD: XD-JB85(win)-2-M2-M2-M2-M25-SEsh

ON REQUEST:

- 1) XD-JB85(win)-2-M2/PD-M2/PD-M2-M25-SEsh
- 2) XD-JB85(win)-2-CD-CD-N2-M25-Cal+X
- 3) XD-JB85(win)-2-CD-N3/PD-CD-M25-SEsb

