



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

(2) **Equipment or Protective Systems Intended for Use
in Potentially Explosive Atmospheres
(Directive 2014/34/EU)**

(3) EU - Type Examination Certificate number:

FTZÚ 07 ATEX 0194X

(4) Product: **Field mounted transmitter type XD-80TR
Field mounted transmitter with indicator type XD-80TIR**


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

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

- (7) This supplementary certificate extends EC - Type Examination Certificate No. FTZÚ 07 ATEX 0194X 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 60079-11:2012, EN 60079-31:2014

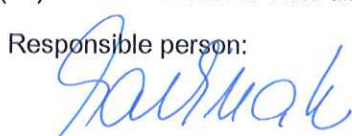
If the sign "X" is placed after the certificate number, it indicates that the product is subject to Specific Conditions of Use specified in the schedule to this certificate.

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

 **II 2G Ex db IIC T6...T5 Gb
II 2G Ex ia IIC T6...T5 Gb
II 2D Ex tb IIC T50...80°C Db** } (see cl. 17)

(12) This certificate is valid till: **31.01.2027**

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 31.01.2022

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

(13)

Schedule

(14) **Supplementary EU - Type Examination Certificate No. 3
to FTZÚ 07 ATEX 0194X**

(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.

Design of enclosure and technical parameters are remain unchanged.

The product is recertified according to standard EN IEC 60079-0:2018.

(16) Report Number: 07/0194/3

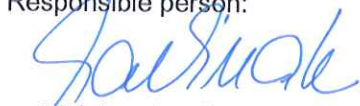
(17) Specific Conditions of Use:

1. Ambient temperature range: $-40^{\circ}\text{C} < T_{\text{amb}} < +50^{\circ}\text{C}$ for T6
 $-40^{\circ}\text{C} < T_{\text{amb}} < +85^{\circ}\text{C}$ for T5
 $-40^{\circ}\text{C} < T_{\text{amb}} \leq +40^{\circ}\text{C}$ for T50°C
 $-40^{\circ}\text{C} < T_{\text{amb}} \leq +55^{\circ}\text{C}$ for T60°C
 $-40^{\circ}\text{C} < T_{\text{amb}} \leq +70^{\circ}\text{C}$ for T80°C.
2. To obtain information about joints dimension it is necessary to contact the manufacturer.
3. If Zener barriers are used to the equalization of ground potential between instrument and earth grounding to grounding terminals of Zener barrier must be carried out.
4. When the XD-80T.. is equipped with transmitter with galvanic insulator, housing of the sensor do not need to be grounded.
5. Ex- cable glands and Ex- blanking elements shall be used with type of Ex-protection according to cl. (11).
6. IP protection 66 ÷ 68 – is depending on applied cable gland. (IP 68 for immersion h = 1m).
7. The power dissipation cannot break 2.0 W for conditions mentioned in cl.1.
8. The enclosure shall be installed to avoid a risk from propagating brush discharges for application in explosive dust atmosphere.

(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: 31.01.2022

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Physical-Technical Testing Institute
Ostrava - Radvanice

(13)

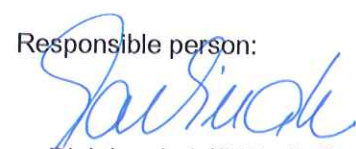
Schedule

(14) **Supplementary EU - Type Examination Certificate No. 3
to FTZÚ 07 ATEX 0194X**

(19) Drawings and Documents:

Number	Revision	Sheets	Date	Description
N-L3826	-	12	27.01.2022	Application Manual
--	-	3	28.01.2022	XD-80TR;XD-80TIR Data sheet
3-Z-L3827	c	1	26.10.2016	Drawing
3-Z-L3828	c	1	26.10.2016	Drawing
4-L4222	b	1	28.01.2022	Label drawing
4-L4223	b	1	28.01.2022	Label drawing

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 31.01.2022

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Physical-Technical Testing Institute
Ostrava - Radvanice



(1) **Supplementary EU - Type Examination Certificate No.2**

(2) **Equipment or Protective Systems Intended for Use
in Potentially Explosive Atmospheres
(Directive 2014/34/EU)**

(3) EU - Type Examination Certificate number:

FTZÚ 07 ATEX 0194X

(4) Product: **Field mounted transmitter type XD-80TR
Field mounted transmitter with indicator type XD-80TIR**

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

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


(7) This supplementary certificate extends EC - Type Examination Certificate No. FTZÚ 07 ATEX 0194X 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 60079-11:2012, EN 60079-31:2014

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

II 2G Ex db IIC T6,T5 Gb
 **II 2G Ex ia IIC T6,T5 Gb**
II 2D Ex tb IIIC T50/60/80°C Db

This certificate is valid till: **30.10.2021**

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 27.10.2016

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Physical-Technical Testing Institute
Ostrava - Radvanice

(13)

Schedule

(14) **Supplementary EU - Type Examination Certificate No. 2
to FTZÚ 07 ATEX 0194X**

(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.

Design of enclosure and technical parameters are without any changes.


The product is recertified according to standards EN 60079-0:2012, EN 60079-1:2014, EN 60079-11:2012 and EN 60079-31:2014.

(16) Report Number.: 07/0194/2

(17) Specific Conditions of Use:

1. Ambient temperature range: $-40^{\circ}\text{C} < T_{\text{amb}} < +50^{\circ}\text{C}$ for T6
 $-40^{\circ}\text{C} < T_{\text{amb}} < +85^{\circ}\text{C}$ for T5
 $-40^{\circ}\text{C} < T_{\text{amb}} \leq +40^{\circ}\text{C}$ for T50°C
 $-40^{\circ}\text{C} < T_{\text{amb}} \leq +55^{\circ}\text{C}$ for T60°C
 $-40^{\circ}\text{C} < T_{\text{amb}} \leq +70^{\circ}\text{C}$ for T80°C.
2. To obtain information about joints dimension it is necessary to contact the manufacturer.
3. If Zener barriers are used to the equalization of ground potential between instrument and earth grounding to grounding terminals of Zener barrier must be carried out.
4. When the XD-80T.. is equipped with transmitter with galvanic insulator, housing of the sensor do not need to be grounded.
5. Ex- cable glands and Ex- blanking elements shall be used with type of Ex-protection according to cl. (11).
6. IP protection 66÷68 is depending on applied cable gland. (IP 68 for immersion $h = 1\text{m}$).
7. The power dissipation cannot break 2.0 W for conditions mentioned in 17.1.

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 27.10.2016

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Physical-Technical Testing Institute
Ostrava - Radvanice

(13)

Schedule

(14) **Supplementary EU - Type Examination Certificate No. 2
to FTZÚ 07 ATEX 0194X**

(18) Essential Health and Safety Requirements:

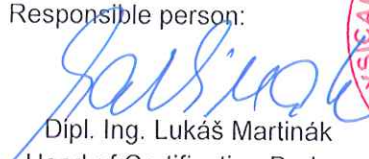
Compliance with the Essential Health and Safety Requirements is covered by standards mentioned in clause (10) of this supplementary certificate.

(19) Drawings and Documents:

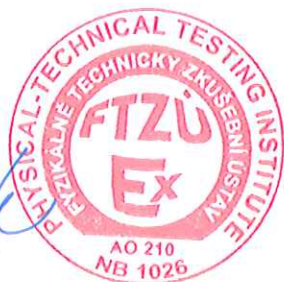
Number	Sheets	Version	Date	Description
N-L3826	12	--	17.08.2016	Application Manual
--	1	--	17.08.2016	XD-80TR;XD-80TIR Data sheet
3-Z-L3827	1	b	26.10.2016	Drawing
3-Z-L3828	1	b	26.10.2016	Drawing

Responsible person:

Date of issue: 27.10.2016


Dipl. Ing. Lukáš Martinák
Head of Certification Body

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Physical-Technical Testing Institute, s.p., Pikartská 1337/7, 716 07 Ostrava - Radvanice, Czech Republic
tel +420 595 223 111, fax +420 596 232 672, ftzu@ftzu.cz, www.ftzu.cz



Physical Technical Testing Institute
Ostrava-Radvanice



(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 07 ATEX 0194X

(4) Equipment or protective system: **Field mounted transmitter type XD-80TR
Field mounted transmitter with indicator type XD-80TIR**

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

(6) Address: **ul. Tarnowska 1, 34-60 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, 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 requirements, 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 60079-1:2007; EN 60079-11:2007; EN 60079-31:2009

(11) Marking of equipment shall contain symbols:

II 2G Ex d IIC T6,T5 Gb

II 2G Ex ia IIC T6,T5 Gb

II 2D Ex t IIC T50/60/80°C Db

(12) This type examination certificate is valid till: **30.11.2016**

Responsible person:

Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 30.11.2011

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 07 ATEX 0194X**

(15) Description of Equipment or Protective System:

The subject of this supplement is prolongation of certificate validity, according newest valid standards (10). Requirements currently valid standards for flameproof enclosure and for intrinsic safety is not necessary differential test

(16) Report No. : 07/0194-D1

dated: 29.11.2011

(17) Special conditions for safe use:

17.1 The basic values for maximum constructional gaps are different from the maximum values shown in Table 1 and table 2 EN 60079-1. The values are specified in the approval documents see below - list of documentation (19).

17.2 The conditions in main document valid in full range.

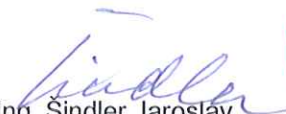
(18) Essential Health and Safety Requirements:

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

(19) LIST OF DOCUMENTATION

Title:	Drawing No.:	Date:
Manual	N-L3826	27.09.2011
XD-80TIR	3-Z-L3827	13.10.2011
XD-80TR	3-Z-L3828	13.10.2011
Data Sheet	XD-80TR; XD-80TIR	27.09.2011

Responsible person:


Dipl. Ing. Sindler Jaroslav
Head of certification body



Date of issue: 30.11.2011

Number of pages: 2
Page: 2/2

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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 07ATEX 0194X

(4) Equipment or protective system: **Field mounted transmitter type XD-80TR**
Field mounted transmitter with indicator type XD-80TIR

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

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

(7) This equipment or protective system and any of acceptable variation there to 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°
07/0194 dated October 2007

(9) Compliance with Essential Health and safety requirements has been assured by compliance with:
EN 60079-0:2006; EN 60079-1:2004; EN 60079-11:2007;

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

(10) If the sign „X” is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This EC-TYPE EXAMINATION CERTIFICATE relates only to the design, examination and testing of the specified equipment or protective system in accordance to the directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

(12) The marking of the equipment or protective system shall include following:

 **II 2GD Ex d tD IIC T6 ,T5 T 50/60/80 °C**
 **II 2GD Ex ia tD IIC T6 ,T5 T 50/60/80 °C**

This EC-Type Examination Certificate is valid till: **31 October 2012**

Responsible person:

Dipl. Ing. Šindler Jaroslav

Head of certification body

Date of issue: 19.10.2007

Number of pages: 3

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Physical Technical Testing Institute
Ostrava-Radvanice

(13)

Schedule

(14) **EC-Type Examination Certificate N° FTZÚ 07 ATEX 0194X**

(15) Description of Equipment or Protective System:

The XD-80TR consists of different type of temperature transmitter accommodated in the certified Ex d empty enclosure type XD-I80.

In case of use intrinsic safety version of transmitters the XD-I80 enclosure is deemed as standard housing for gases G and which does not provide additional flameproof protection. For dust D enclosure provides protection type tD.

The XD-80TIR consists of none intrinsically safe temperature transmitter only and similar loop power display type LPI-01. These both are accommodated in the type XD-I80 win enclosure.

The enclosures can be equipped with two cable glands: for power supply/output signal and sensor signal.

XD-I80 enclosure series was approved and confirmed by certificate FTZU 04 ATEX 0265U.

Intrinsically safe version of transmitters used in the XD-80TR with protection Ex ia tD IIC T6,T5

Technical parameters:

The ambient temperature and temperature class depends on used transmitter type.

Range of maximum service temperature for enclosure:

$-40^{\circ}\text{C} < T_{\text{serv}} < 100^{\circ}\text{C}$ for XD-I80

$-40^{\circ}\text{C} < T_{\text{serv}} < 85^{\circ}\text{C}$ for XD-I80win

(16) Report No. : 07/0194

13 pages

(17) Special conditions for safe use:

17.1 If Zener barriers are used to the equalization of ground potential between instrument and earth grounding to grounding terminals of Zener barrier must be carried out.

17.2 When the XD-80T.. is equipped with transmitter with galvanic insulator, housing of the sensor do not need to be grounded.

17.3 $-40^{\circ}\text{C} < T_{\text{amb}} < 50^{\circ}\text{C}$ for T6

$-40^{\circ}\text{C} < T_{\text{amb}} < 85^{\circ}\text{C}$ for T5

$-40^{\circ}\text{C} < T_{\text{amb}} \leq 40^{\circ}\text{C}$ for T50°C

$-40^{\circ}\text{C} < T_{\text{amb}} \leq 55^{\circ}\text{C}$ for T60°C

$-40^{\circ}\text{C} < T_{\text{amb}} \leq 70^{\circ}\text{C}$ for T80°C

17.4 IP protection 66 ÷ 68 – is depending on applied cable gland. (IP 68 for immersion h = 1m)

17.5 17.5 The power dissipation cannot break 2,0 W for conditions mentioned in 17.3.

(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: 19.10.2007

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Physical Technical Testing Institute
Ostrava-Radvanice

(13) **Schedule**

(14) **EC-Type Examination Certificate N° FTZÚ 07 ATEX 0194X**

(19) **LIST OF DOCUMENTATION**

- Application manual N° N-L3826 dated 11.06.2007
- Catalogue sheets: dated 06.2007
- Drawings N°:
 - 3-Z-L3827 dated 11.06.2007
 - 3-Z-L3828 dated 11.06.2007
 - 4-L3834 dated 19.06.2007
 - 4-L3835 dated 19.06.2007
 - 4-L3836 dated 19.06.2007
 - 4-L3837 dated 19.06.2007
 - 4-L3838 dated 19.06.2007
 - 4-L3839 dated 19.06.2007



Responsible person:

Date of issue: 19.10.2007


Dipl. Ing. Šindler Jaroslav

Head of certification body

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