



Supplement No. 11 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 03 ATEX 0074U

(4) Component: **Connection head XD -A**, XD-A** win serie
Field transmitter housing XD-A**F... serie**

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

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

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

(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 manufacturer 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 component shall contain symbols:

 **II 2G Ex d IIC**

 **II 2D Ex tD A21 IP68**

(12) This type examination certificate is valid till: **03.05.2015**

Responsible person:


Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 03.05.2010

Number of pages: 5
Page: 1/5

This supplement to certificate is granted subject to the general conditions of the Physical Technical Testing Institute.
This supplement to certificate may only be reproduced in its entirety and without any change, schedule included.



**Physical Technical Testing Institute
Ostrava-Radvanice**

(13)

Schedule

(14)

**Supplement No. 11 to
EC-Type Examination Certificate N° FTZÚ 03 ATEX 0074U**

(15) Description of Component:

Connection heads XD-A** series are foreseen to accommodate DIN measuring inserts and temperature transmitters of temperature sensors working in hazardous areas.

Connection heads XD-A** series include different variations made by different bodies and covers. Variations of the final assembly are described in Annex No. 1 to this supplement.

The enclosure is made of aluminium pressure die-casting (Mg<6%).

There are three flameproof joints in XD-A** connection head:

- cover is fixed to the body by thread M80x1,5 6H,
- threaded holes on the body of enclosure D₂, D₃: M20x1.5, ½NPTmod, ¾NPTmod are conduit openings for flameproof cable gland,
- cylindrical smooth standard hole d₁: Ø6,1H8, Ø8,1H8, Ø8,0^{+0,1}_{+0,02}, Ø9,6H8, Ø10,1H7, Ø10,0^{+0,1}_{+0,02}, Ø12,1H7, Ø12,8H7, Ø15,1H7 in process opening is made for create flameproof joint with sheath of measuring insert,
d₁ = Ø13 is made non flameproof for sensor wires,
d₁ = M16x1.5 6g is made for creating flameproof joints with screw bush,
- threaded hole D₁: M20x1.5, M24x1.5, M27x2, ½NPTmod, ¾NPT mod in process opening is designed for flameproof thermowell connection.

The taper NPT threads according to ANSI/ASME B1.20.1-1983 is executed with modification to meet simultaneously standards IEC 60079-1, EN 60079-1, CSA C22.2 No.5 and FM 3615.

The cover is sealed by sealing O-ring.

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

There is possible in cover to make a caution inscription in free 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.

(16) Report No. : 03/0074, Supplement No. 11

Responsible person:

Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 03.05.2010

Number of pages: 5
Page: 2/5

This supplement to certificate is granted subject to the general conditions of the Physical Technical Testing Institute.
This supplement to certificate may only be reproduced in its entirety and without any change, schedule included.



Fyzikálně technický zkušební ústav
Ostrava-Radvanice

(14)

Schedule

(14)

Supplement No. 11 to
EC-Type Examination Certificate N° FTZÚ 03 ATEX 0074U

(17) Schedule of limitations:

17.1 The conditions from the main document and the Supplements No. 1 to No.10 are included in the Supplement No.11 which replaced all of them.

17.2 Tserv (°C) XD-A... series: -40°C až +100°C (TPE rubber)
 -50°C až +150°C (silicon rubber VQM)
 -20°C až +200°C (FKM rubber)
XD-A...win series: -40°C až +85°C (TPE rubber)
 -50°C až +85°C (silicon rubber VQM)
 -20°C až +85°C (FKM rubber)

17.3 Max. power dissipation:

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	For all variety of enclosures position horizontally/vertically	
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	

17.4 IP 68 max (h=1m)

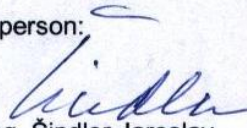
17.5 Overpressure test acc. cl. 15.1.3.1 of the standard EN 60079-1 by overpressure 65 bar (the requirement on the overpressure test made on each piece of enclosure is canceled).

(18) Essential Health and Safety Requirements:

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

This Supplement No.11 include all changes mentioned in supplements No.1 to No.10 and replace them.

Responsible person:


Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 03.05.2010

Number of pages: 5
Page: 3/5

This supplement to certificate is granted subject to the general conditions of the Physical Technical Testing Institute.
This supplement to certificate may only be reproduced in its entirety and without any change, schedule included



Fyzikálně technický zkušební ústav
Ostrava-Radvanice

(14)

Schedule

(15)

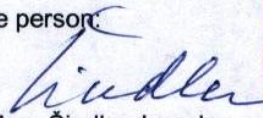
Supplement No. 11 to
EC-Type Examination Certificate N° FTZÚ 03 ATEX 0074U

(19)

LIST OF DOCUMENTATION

<i>Lp.</i>	<i>Drawing No.</i>	<i>Updated</i>
1	2-Z-L1983 – XD-AD	21.01.2010 – “c”
2	2-Z-L2068 – XD-ADwin	21.01.2010 – “c”
3	2-Z-L2186 – XD-ADF	21.01.2010 – “c”
4	2-Z-L2187 – XD-ADFwin	21.01.2010 – “c”
5	2-Z-L2219 – XD-ADEH	21.01.2010 – “c”
6	2-Z-L2221 – XD-ADFEH	21.01.2010 – “c”
7	2-Z-L3105 – XD-ADH	21.01.2010 – “c”
8	2-Z-L3537 – XD-AH	21.01.2010 – “c”
9	2-Z-L3538 – XD-AB	21.01.2010 – “c”
10	2-Z-L3539 – XD-AHH	21.01.2010 – “c”
11	2-Z-L3540 – XD-ABH	21.01.2010 – “c”
12	2-Z-L3541 – XD-AHwin	21.01.2010 – “c”
13	2-Z-L3542 – XD-ABwin	21.01.2010 – “c”
14	2-Z-L3543 – XD-AHEH	21.01.2010 – “c”
15	2-Z-L3544 – XD-ABEH	21.01.2010 – “c”
16	2-Z-L3548 – XD-AHF	21.01.2010 – “c”
17	2-Z-L3549 – XD-ABF	21.01.2010 – “c”
18	2-Z-L3550 – XD-AHFH	21.01.2010 – “c”
19	2-Z-L3551 – XD-ABFH	21.01.2010 – “c”
20	2-Z-L3552 – XD-AHFwin	21.01.2010 – “c”
21	2-Z-L3553 – XD-ABFwin	21.01.2010 – “c”
22	2-Z-L3554 – XD-AHFEH	21.01.2010 – “c”
23	2-Z-L3555 – XD-ABFEH	21.01.2010 – “c”
24	2-Z-L3723 – XD-ADFH	21.01.2010 – “c”
25	2-Z-L4049 – XD-AD-AK93	06.07.2009

Responsible person:


Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 03.05.2010

Number of pages: 5
Page: 4/5

This supplement to certificate is granted subject to the general conditions of the Physical Technical Testing Institute.
This supplement to certificate may only be reproduced in its entirety and without any change, schedule included.



Fyzikálně technický zkušební ústav
Ostrava-Radvanice

(14)

Schedule

(15)

**Supplement No. 11 to
EC-Type Examination Certificate N° FTZÚ 03 ATEX 0074U**

(19)

LIST OF DOCUMENTATION

- TPE rubber Tefabloc TO SI 431 specification
- VQM rubber Elastosil 701/50 specification
- Data sheet of FKM rubber VR1 specification
- Technical data of aluminium alloy 226, EN AC – AlSi9Cu3
- Technical data of aluminium alloy 230, EN AC – AlSi12 mod
- Silicone encapsulant "Sylgard 567" specification

Responsible person:

Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 03.05.2010

Number of pages: 5
Page: 5/5

This supplement to certificate is granted subject to the general conditions of the Physical Technical Testing Institute.
This supplement to certificate may only be reproduced in its entirety and without any change, schedule included.



(1) **Supplement No. 12 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 03 ATEX 0074U

(4) Component: **Connection head type XD – A** series
Field transmitter housing XD-A**F... series**

(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

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

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

(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:

 **II2G Ex d IIC Gb**

 **II2D Ex t IIIC Db IP68**

(12) This type examination certificate is valid till: **31.12.2015**

Responsible person:


Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 30.11.2010

Number of pages: 2

Page: 1/2

This supplement to certificate is granted subject to the general conditions of the Physical Technical Testing Institute.
This supplement to certificate may only be reproduced in its entirety and without any change, schedule included.



**Physical Technical Testing Institute
Ostrava-Radvanice**

(13)

Schedule

(14)

**Supplement No. 12 to
EC-Type Examination Certificate N° FTZÚ 03 ATEX 0074U**

(15) Description of Component:

The object of this supplement is as follow:

- Recertification according to the new standards EN 60079-0:2009, EN 60079-1:2007 and EN 60079-31:2009.
- Additional hole $\varnothing 6,0^{+0,04}_{-0,05}$ in screw bush d1 in the process opening d1/D1 was tested for explosion transmission.
- It was introduced labels for marking opening threads according to standard EN 60079-1, cl.13.

(16) Report No. : 03/0074 - Supplement No. 12

(17) Schedule of limitations:

Conditions mentioned in the Supplement No. 11 are valid in whole range.

(18) Essential Health and Safety Requirements:

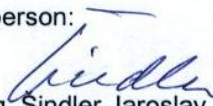
Covered by standards mentioned in (10) of this supplement.

New standards do not required any further tests as that which were provided according to the standards EN 60079-0:2007, EN 60079-1:2008 and EN 61241-0:2007.

(19) LIST OF DOCUMENTATION

<i>Documentation:</i>	<i>Description:</i>	<i>Date-rev.</i>
N-L2236	Application manual	31.08.2010
XD-AD	Data sheet- Connection head	31.08.2010
XD-ADEH	Data sheet- Connection head	31.08.2010
<i>Drawings:</i>		
2-Z-L1983	2-Z-L1983 – XD-AD	07.09.2010 – “d”
2-Z-L2068	2-Z-L2068 – XD-ADwin	07.09.2010 – “d”
2-Z-L3105	2-Z-L3105 – XD-ADH	07.09.2010 – “d”
2-Z-L4049	2-Z-L4049 – XD-AD-AK93	07.09.2010 – “a”

Responsible person:


Dipl. Ing. Sindler Jaroslav
Head of certification body



Date of issue: 30.11.2010

Number of pages: 2
Page: 2/2

This supplement to certificate is granted subject to the general conditions of the Physical Technical Testing Institute.
This supplement to certificate may only be reproduced in its entirety and without any change, schedule included.