



EU - Type Examination Certificate

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

(3) EU - Type Examination Certificate number:

FTZÚ 16 ATEX 0080X

(4) Product: **Flameproof luminaire type EXTEND-Ex-P-LED; EXTEND-Ex-P-Em-LED
and MULTIEXTEND-Ex-P-LED**

(5) Manufacturer: **VYRTYCH a.s.**

(6) Address: **Bělehradská 314/18, 140 00 Praha 4 - Nusle, Czech Republic**

(7) This product and any 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 Articles 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26.02.2014, certifies that this product 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.

The examination and test results are recorded in confidential Report number:

16/0080 dated 22.06.2016

(9) 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 60079-11:2012, EN 60079-18:2015,
EN 60079-31:2014, EN 60079-28:2007**

(10) 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) This certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

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

Ex II 2G Ex db eb ib mb op is IIC T4 Gb – see clause 15

Ex II 2D Ex tb IIC T71°C Db

This certificate is valid till: **30.06.2021**

Responsible person:

Lukáš Martinák
Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 23.06.2016

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Annex: No. 1 (2 sheets)



Physical-Technical Testing Institute
Ostrava - Radvanice

(13)

Schedule

(14) **EU - Type Examination Certificate No. FTZÚ 16 ATEX 0080X**

(15) Description of Product:

The type Extend-Ex-P-LED, Extend-Ex-P-Em-LED (maintained emergency lighting) and Multiextend-Ex-P-LED (non-maintained emergency lighting) luminaire with degree of protection IP 66 is composed of three plastic parts of the enclosure comprises a body with locking, light transmitting cover and varnished steel plate (reflector). On body ends are inserted plastic or stainless steel cable glands or plugs – see Annex No.1.

Inside of body are installed 2x four-pole terminal block WAGO type 262-283 or 262-233 (PTB 98 ATEX 3125U) in type of Ex-protection Ex e II, for connection of cable conductors to 4 mm², electronic ballast BAREL type HFX LED (HFXE LED for emergency lighting) (Presafe 14 ATEX 5355U) in type of Ex-protection Ex eb mb II, and the flameproof battery set type VBA-Ex-NiCd 4,8V /4Ah in type of Ex-protection Ex mb II T5 Gb (FTZÚ 10 ATEX 0145X/2). The luminaire can be alternative equipped by Watchdog unit CG-S module in Ex-protection II 2G Ex e ib mb IIC (PTB 04 ATEX 2110U).

The reflector, according to type variant of luminaire, can be equipped by one and two off-load switch type VOD-Ex (FTZÚ 10 ATEX 0297U) alternatively type 07-1544 (PTB 99 ATEX 1011U) in type of Ex-protection Ex db IIC. As the light sources are used LED modules type ARC 600 (25W) or ARC 1200 (50W) (Presafe 15 ATEX 6296U) in type of Ex-protection Ex mb op is IIC T4 Gb.

Electrical parameters:

Nominal Voltage: 110-254V AC; 50/60Hz; or 220-250V DC; 0,11-0,55A

Ex marking of product:

Ex II 2G Ex db eb mb op is IIC T4 Gb – luminaire with off-load switch;

Ex II 2G Ex db eb ib mb op is IIC T4 Gb – luminaire with off-load switch and Watchdog unit CG-S module;

Ex II 2G Ex eb mb op is IIC T4 Gb – luminaire without off-load switch and Watchdog unit CG-S module.

CODING OF TYPE EXTEND-EX- P-LED LUMINAIRE

Type coding	Type
EXTEND – Ex – P- LED – XXXX-YYY*-D	A type luminaire with off-load switch
EXTEND – Ex – LED - XXXX-YYY - WOD	A type luminaire without off-load switch
MULTIEXTEND – Ex – P- LED - XXXX-YYY - D	A type luminaire (maintained emergency lighting) with off-load switch
MULTIEXTEND – Ex – P- LED - XXXX-YYY- WOD	A type luminaire (maintained emergency lighting) without off-load switch
EXTEND- Ex-P- Em - LED - XXXX-YYY	A type luminaire (non-maintained emergency lighting)

*XXXX - marking of luminous flux (lm)

YYY - marking of type body of luminaire

Responsible person:

Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 23.06.2016

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Annex: No. 1 (2 sheets)

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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

Schedule

(13)

(14) **EU - Type Examination Certificate No. FTZÚ 16 ATEX 0080X**

(16) Report Number.: 16/0080

(17) Specific Conditions of Use:

1. The type luminaire without installed off-load switch must be labelled "Do not open when energized".
2. Ambient temperature T_{amb} :
-20°C to +55°C for type EXTEND-Ex-P-LED; 1x25W/50W,
0°C to +35°C for type EXTEND-Ex-P-Em-LED; 1x25W,
0°C to +45°C for type EXTEND-Ex-P-Em-LED; 1x50W,
0°C to +35°C for type MULTIEXTEND-Ex-P-LED; 1x25W,
0°C to +45°C for type MULTIEXTEND-Ex-P-LED; 1x50W.
3. The luminaire is intended for fixed installation and must be labelled "Warning - potential danger of electrostatic charging" - see Technical conditions.
4. The Technical conditions of maintenance must be complied.

(18) Essential Health and Safety Requirements:

Compliance with the Essential Health and Safety Requirements is covered by standards mentioned in clause (9) of this certificate.

(19) Drawings and Documents:

Number	Issue	Sheets	Date	Description
--	00	6	17.06.2016	Technical description
--	00	1	17.06.2016	Technical conditions
Assembly EXTEND-Ex-P-LED			20.05.2016	Drawing
Labels		2	16.06.2016	Drawing

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 23.06.2016

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Annex: No. 1 (2 sheets)

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Physical-Technical Testing Institute
Ostrava - Radvanice

ANNEX No. 1

to EU - Type Examination Certificate No. FTZÚ 16 ATEX 0080X

List of used components (Cable gland and blanking element)

Manufacturer	Component	Type (series)	Certificate ATEX
OBO	gable glands	V-TEC EX	PTB 99 ATEX 3112X
OBO	gable glands	V-TEC EX-; M16x1,5	PTB 99 ATEX 3113X
Hummel AG	gable glands	HSK-K-MZ-Ex, HSK-M-Ex, HSK-M-PVDF-Ex, HSK-M-EMV-Ex, HSK-M-EMV-PVDF-Ex, HSK-M-EMV-D-Ex, HSK-MZ-Ex, HSK-MZ-PVDF-Ex, HSK-MZ-EMV-Ex, HSK-MZ-EMV-PVDF-Ex, HSK-INOX-Ex, HSK-INOX-PVDF-Ex, HSK-INOX-EMV-Ex and HSK-INOX-EMV-PVDF-Ex	KEMA 99 ATEX 6971X
Hummel AG	gable glands	EXIOS;EXIOS MZ	BVS 10 ATEX E 062X
Hummel AG	blanking elements	V-...-Ex-d, RSD	KEMA 06 ATEX 0024
EATON	gable glands	GHG 960..R.... ; M12-M16	PTB 99 ATEX 3101X
EATON	gable glands	GHG 960..R.... ; M20-M63	PTB 99 ATEX 3128X
EATON	gable glands	ADE-.....	INERIS 12 ATEX 0032X
EATON	blanking elements	CK; CQ	SIRA 10 ATEX 1225X
EATON	blanking elements	GHG 960 1927 R....	PTB 01 ATEX 1128X
EATON	blanking elements	DP-E	SIRA 99ATEX3050X
WISKA	gable glands	*SKE/1(S)(-L)-*(-RDE) ** (LT) (**-***)	PTB 13 ATEX 1015 X
WISKA	gable glands	*SSKE(S)(-L)(-4)(-RDE) **(-**) (LT) (****)	PTB 05 ATEX 1098 X
WISKA	gable glands	EMSKEZ	PTB 09 ATEX 1049
WISKA	gable glands	WEID.E1XF	NEMKO 02 ATEX 501 X
WISKA	gable glands	WEID.E1WF	NEMKO 02 ATEX 500 X
WISKA	blanking elements	OSSP	NEMKO 02 ATEX 502
WISKA	blanking elements	OSRA	NEMKO 03 ATEX 1458
WISKA	blanking elements	OSAJ	NEMKO 03 ATEX 1459X
WISKA	blanking elements	EX-VSM	PTB 03 ATEX 1158
WISKA	blanking elements	EX-EMVS	PTB 05 ATEX 1106
WISKA	blanking elements	EX-EVSG	PTB 06 ATEX 1032 X
WISKA	blanking elements	EX-KEM	PTB 04 ATEX 1040 X
WISKA	gable glands	OSNJ	NEMKO 03 ATEX 1460 X
WISKA	cable glands	*MSKE(S)(-L)(-**-RDE) **(-**) (LT) (****)	PTB 04 ATEX 1112 X

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body

Date of issue: 23.06.2016

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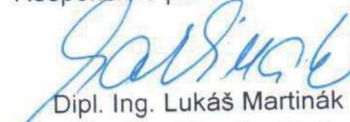
Physical-Technical Testing Institute
Ostrava - Radvanice

ANNEX No. 1

to EU - Type Examination Certificate No. FTZÚ 16 ATEX 0080X

Manufacturer	Component	Type (series)	Certificate ATEX
Pflitsch	cable glands + blanking elements	Ex e	PTB 06 ATEX 1036X
BIMED	cable glands	DORADO	IMQ 11 ATEX 036
BIMED	cable glands	ORION	IMQ 11 ATEX 037
BIMED	cable glands	OCTANS	IMQ 11 ATEX 038X
BIMED	cable glands	ORION UNIVERSAL; CRATER	CESI 13 ATEX 033X
BIMED	cable glands	E-OCTANS; E-VELA; NORMA; E-CARINA; E-CYGNUS	IMQ 13 ATEX 018X
BIMED	cable glands	PHOENIX	IMQ 13 ATEX 029X
BIMED	cable glands	LYRA	IMQ 13 ATEX 010X
BIMED	cable glands	GEMINI; DRACO; CETUS	MQ 13 ATEX 011X
BIMED	blanking elements	APUS; GRUS; ARIES; PAVO; AQUILA	CESI 13 ATEX 066
BIMED	cable glands	HYDRA	IBExU 10 ATEX 1169U
ELFIT	cable glands	UNI; UNP; UNN; XP; XPA	CESI 03 ATEX 305X
ELFIT	cable glands	F.....	CESI 00 ATEX 075X
ELFIT	cable glands	REV; REVD	CESI 13 ATEX 019X
ELFIT	cable glands	UN...	IMQ 16 ATEX 005 X
Peppers	cable glands	A8*F, A8C**F, D8X*F, E8X*F	SIRA 01 ATEX 1270X
Peppers	cable glands	E****F*, D****F, C****E*	SIRA 01 ATEX 1271X
Peppers	cable glands	A****, A*L**, A*LC***, A*RC***	SIRA 01 ATEX 1272X
Peppers	cable glands	UL-C; UL-X; UL-U	SIRA 09 ATEX 1066X
Peppers	cable glands	CR-***, CR-D**, CR-O***	SIRA 03 ATEX 1479X
Peppers	blanking elements	SPA, SPB, SPHH, SPMH	SIRA 09 ATEX 1320X
Peppers	blanking elements	ACDP	SIRA 09 ATEX 3321U
HAWKE	cable glands	501/421; 501/423; 501/453	BASEEFA 06 ATEX 0056X
HAWKE	cable glands	501/453/UNIVERSAL	BASEEFA 06 ATEX 0057X
HAWKE	cable glands	ICG 6xx	BASEEFA 06 ATEX 0058X
HAWKE	blanking elements	375	BASEEFA 12 ATEX 0095X
HAWKE	blanking elements	390	BASEEFA 11 ATEX 0157X
HAWKE	blanking elements	487	BASEEFA 11 ATEX 0149X
HAWKE	blanking elements	475; 477	BASEEFA 10 ATEX 0262X
HAWKE	blanking elements	387	BASEEFA 06 ATEX 0118U

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 23.06.2016

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Physical-Technical Testing Institute
Ostrava - Radvanice



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

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

- (3) EU - Type Examination Certificate number:

FTZÚ 16 ATEX 0080X

- (4) Product: **Flameproof luminaire type EXTEND-Ex-P-LED; EXTEND-Ex-P-Em-LED
and MULTIEXTEND-Ex-P-LED**
- (5) Manufacturer: **VYRTYCH a.s.**
- (6) Address: **Židněves 116, 294 06 Březno, Czech Republic**
- (7) This supplementary certificate extends EU - Type Examination Certificate No. FTZÚ 16 ATEX 0080X 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) 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 60079-7:2015, EN 60079-11:2012,
EN 60079-18:2015, EN 60079-31:2014, EN 60079-28:2007**
- (10) 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 eb ib mb op is IIC T4 Gb** – see clause 15

 **II 2D Ex tb IIIC T71°C Db**

- (12) This certificate is valid till: **30.06.2021**

Responsible person:

V. Z. Jof

Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 25.07.2017

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

(13)

Schedule

(14) **Supplementary EU - Type Examination Certificate No. 1
to FTZÚ 16 ATEX 0080X**

(15) Description of the variation to the Product:

The subject of this supplementary certificate is:

- Modification of certified apparatus;
- Change of manufacturer's address.

This supplementary certificate modifies ambient temperature T_{amb} from 0°C to $+50^{\circ}\text{C}$ for the luminaire type EXTEND-Ex-P-Em-LED.

Temperature class T4 and maximum surface temperature $+71^{\circ}\text{C}$ were unchanged.

The manufacturer's address was changed from: Bělehradská 314/18, 140 00 Praha 4 – Nusle to new address: Židněves 116, 294 06 Březno.

Electrical parameters:

Nominal Voltage: 110-254V AC; 50/60Hz; or 220-250V DC; 0,11-0,55A

Ex marking of product:

- II 2G Ex db eb mb op is IIC T4 Gb – luminaire with off-load switch;
- II 2G Ex db eb ib mb op is IIC T4 Gb – luminaire with off-load switch and Watchdog unit CG-S module;
- II 2G Ex eb mb op is IIC T4 Gb – luminaire without off-load switch and Watchdog unit CG-S module.

(16) Report Number.: 16/0080/1

(17) Specific Conditions of Use:

1. The type luminaire without installed off-load switch must be labelled "Do not open when energized".
2. Ambient temperature T_{amb} :
 - 20°C to +55°C for type EXTEND-Ex-P-LED; 1x25W/50W,
 - 0°C to +50°C for type EXTEND-Ex-P-Em-LED; 1x25W/50W,
 - 0°C to +35°C for type MULTIEXTEND-Ex-P-LED; 1x25W,
 - 0°C to +45°C for type MULTIEXTEND-Ex-P-LED; 1x50W.
3. The luminaire is intended for fixed installation and must be labelled "Warning - potential danger of electrostatic charging" - see Technical conditions.
4. The Technical conditions of maintenance must be complied.

Responsible person:

Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 25.07.2017

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Physical-Technical Testing Institute
Ostrava - Radvanice

(13)

Schedule

(14) **Supplementary EU - Type Examination Certificate No. 1
to FTZÚ 16 ATEX 0080X**

(18) Essential Health and Safety Requirements:

Compliance with the Essential Health and Safety Requirements is covered by standards mentioned in clause (9) of this supplementary certificate.

(19) Drawings and Documents:

Number	Issue	Sheets	Date	Description
--	01	5	28.06.2017	Technical description
--	02	1	22.06.2017	Technical conditions
Labels	01	2	22.06.2017	Drawing

Responsible person:

V. Z. Jaf

Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 25.07.2017

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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 16 ATEX 0080X

- (4) Product: **Flameproof luminaire type EXTEND-Ex-P-LED; EXTEND-Ex-P-Em-LED
and MULTIEXTEND-Ex-P-LED**

- (5) Manufacturer: **VYRTYCH a.s.**

- (6) Address: **Židněves 116, 294 06 Březno, Czech Republic**

- (7) This supplementary certificate extends EU - Type Examination Certificate No. FTZÚ 16 ATEX 0080X 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) 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, EN 60079-11:2012
EN 60079-18:2015, EN 60079-31:2014, EN 60079-28:2015**

- (10) 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:

Ex II 2G Ex db eb ib mb op is IIC T4 Gb – see clause 15

Ex II 2D Ex tb op is IIIC T71°C Db

- (12) This certificate is valid till: **31.07.2025**

Responsible person:

Lukáš Martinák
Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 24.07.2020

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

(13)

Schedule

(14) **Supplementary EU - Type Examination Certificate No. 2
to FTZÚ 16 ATEX 0080X**

(15) Description of the variation to the Product:

The subject of this supplementary certificate is:

- Modification of certified apparatus.
- Verification according to newest standards.
- Prolongation of certificate validity.

This supplementary certificate describes of using new version of LED module with marking BG4 as a basic used component, existing LED module with marking BG3 shall be used as alternative component.

Ambient temperature range was changed for variant MULTIEXTEND-Ex-P-LED-8000-236 from Tamb +45°C to Tamb +40°C. For variant EXTEND-Ex-P-LED-8000-236 with power supply 110V, 50/60Hz is Tamb +45°C only.

The Ex marking "op is" was added for type of protection Ex tb.

The marking of product for gas atmosphere, electrical parameters and design were unchanged.

(16) Report Number.: 16/0080/2

(17) Specific Conditions of Use:

1. Ambient temperature range:

- | | |
|----------------|--|
| -20°C to +55°C | for type EXTEND-Ex-P-LED-XXXX-218/236; |
| -20°C to +45°C | for type EXTEND-Ex-P-LED-XXXX-236 pro 110V, 50/60Hz; |
| 0°C to +50°C | for type EXTEND-Ex-P-Em-LED-XXXX-218/236; |
| 0°C to +35°C | for type MULTIEXTEND-Ex-P-LED-XXXX-218; |
| 0°C to +40°C | for type MULTIEXTEND-Ex-P-LED-XXXX-236. |

2. The luminaire is intended for fixed installation and must be labelled "Warning - potential danger of electrostatic charging" - see Technical conditions.
- 3 The type luminaire without installed off-load switch must be labelled "Do not open when energized".
- 4 The Technical conditions of maintenance must be complied.

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 24.07.2020

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Physical-Technical Testing Institute
Ostrava - Radvanice

(13)

Schedule

(14) **Supplementary EU - Type Examination Certificate No. 2
to FTZÚ 16 ATEX 0080X**

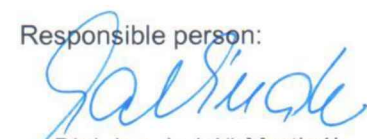
(18) Essential Health and Safety Requirements:

Compliance with the Essential Health and Safety Requirements is covered by standards mentioned in clause (9) of this supplementary certificate.

(19) Drawings and Documents:

Number	Issue	Sheets	Date	Description
--	03	5	10.06.2020	Technical description
--	06	1	10.06.2020	Technical conditions
--	03	2	10.06.2020	Drawing of labels

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 24.07.2020

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