Physical-Technical Testing Institute
Ostrava - Radvanice

(1) # Type Examination Certificate

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

(3) Type Examination Certificate number:

FTZÚ 16 ATEX 0102X

(4) Product: **Luminaire type EXTRA-N-LED; MULTIEXTRA-N-LED and EXTRA-N-Em-LED**

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

(6) Address: **Bělehradská 314/18,140 00 Praha 4, 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 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 Directive 2014/34/EU of the European Parliament and of the Council, dated 26.02.2014.

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

16/0102 dated 24.10.2016

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2012, EN 60079-15:2010, EN 60079-31:2014

(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 type examination certificate relates only to the design of the specified product and not to specific items of equipment subsequently manufactured.

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

Ex II 3G Ex nR IIC T6 Gc

Ex II 3D Ex tc IIIC T62°C Dc

This certificate is valid till: **31.10.2021**

Responsible person:

Dipl. Ing. Lukáš Martinák
Head of Certification Body

FYZIKÁLNĚ TECHNICKÝ ZKUŠEBNÍ ÚSTAV, s.p. OSTRAVA-RADVANICE

Date of issue: 25.10.2016

This certificate is granted subject to the general conditions of the FTZÚ, s.p.
This certificate may only be reproduced in its entirety and without any change, schedule included.

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

(13) **Schedule**

(14) # Type Examination Certificate No. FTZÚ 16 ATEX 0102X

(15) Description of Product:

The type EXTRA-N-LED, EXTRA-N-Em-LED (non-maintained emergency lighting) and MULTIEXTRA-N-LED (maintained emergency lighting) luminaire with degree of protection IP 66 is composed of three parts: body with exchangeable sealing and light- transmitting cover from polycarbonate and varnished steel plate (reflector) with electrical package.

The body and optical cover are connected by stainless steel clips. The body is equipped by Ex- cable glands (resp. Ex- blanking elements).

On the reflector are installed 2x three-pole or multi-pole terminal block WAGO for connection of power cable with wires to 2,5mm^2, LED drivers or emergency units and battery pack type VBA-N.

As the light sources are used LED modules which are fixed on the reflector.

Electrical parameters:
Nominal Voltage: 220-240V AC; 50/60Hz
Nominal Voltage: 220-240V DC

TYPE CODING OF LUMINAIRE:

Type coding	Type
EXTRA – N- LED – X*YYY*- 4K	**A type luminaire – standard lighting**
MULTIEXTRA – N- LED – X*-YYY*- 4K	**A type luminaire - maintained emergency lighting**
EXTRA - N- Em - LED – X*-YYY*-4K	**A type luminaire - non-maintained emergency lighting**

X* - marking of luminous flux (lm)
YYY* - marking type of body of luminaire

(16) Report Number.: 16/0102

Responsible person:
Dipl. Ing. Lukáš Martinák
Head of Certification Body

Date of issue: 25.10.2016

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(13) **Schedule**

(14) # Type Examination Certificate No. FTZÚ 16 ATEX 0102X

(17) Specific Conditions of Use:

1. Ambient temperature range: -20°C ≤ Tamb ≤ +45°C – EXTRA-N-LED-2500/7500-218/258-4K
   -20°C ≤ Tamb ≤ +50°C – EXTRA-N-LED-5000-236-4K
   -20°C ≤ Tamb ≤ +40°C – EXTRA-N-LED-5000/10000-218/236-4K
   -20°C ≤ Tamb ≤ +35°C – EXTRA-N-LED-12550-258-4K
   0°C ≤ Tamb ≤ +35°C – MULTIEXTRA-N-LED-2500-218-4K
   – EXTRA-N-Em-LED-2500-218-4K
   0°C ≤ Tamb ≤ +45°C – MULTIEXTRA-N-LED-5000/7500-236/258-4K
   – EXTRA-N-Em-LED-5000/7500-236/258-4K
2. The luminaire is intended for fixed installation and must be labelled "Warning - potential danger of electrostatic charging" - see Technical conditions.
3. The power supply cable shall be effectively fixed to prevent pulling or twisting.
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	Sheets	Issue	Date	Description
--	6	00	18.10.2016	Technical description
--	1	01	19.10.2016	Technical conditions for mounting
Assembly	--	--	01.06.2016	Drawing
Labels	2	--	17.10.2016	Drawing

Responsible person:

Dipl. Ing. Lukáš Martinák
Head of Certification Body

FYZIKÁLNĚ TECHNICKÝ ZKUŠEBNÍ ÚSTAV, s.p. OSTRAVA-RADVANICE

Date of issue: 25.10.2016

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Physical-Technical Testing Institute
Ostrava - Radvanice

(1) # Supplementary Type Examination Certificate No. 1

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

(3) Type Examination Examination Certificate number:

FTZÚ 16 ATEX 0102X

(4) Product: **Luminaire type EXTRA-N-LED; MULTIEXTRA-N-LED and EXTRA-N-Em-LED**

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

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

(7) This supplementary certificate extends Type Examination Certificate No. FTZÚ 16 ATEX 0102X 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 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 2014/34/EU of the European Parliament and of the Council, dated 26.02.2014.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2012+A11:2013, EN 60079-15:2010, EN 60079-31:2014

(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 3G Ex nR IIC T6 Gc

Ex II 3D Ex tc IIIC T62°C Dc

(12) This certificate is valid till: **31.10.2021**

Responsible person:

Dipl. Ing. Lukáš Martinák
Head of Certification Body

FYZIKÁLNĚ TECHNICKÝ ZKUŠEBNÍ ÚSTAV, s.p. • OSTRAVA-RADVANICE •

Date of issue: 25.07.2017

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

(13) **Schedule**

(14) # Supplementary Type Examination Certificate No. 1 to FTZÚ 16 ATEX 0102X

(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 Tamb from 0°C to +50°C for the luminaire type EXTRA-N-Em-LED.

Temperature class T6 and maximum surface temperature +62°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.

(16) Report Number.: 16/0102/1

(17) Specific Conditions of Use:

1. Ambient temperature range: -20°C ≤ Tamb ≤ +45°C – EXTRA-N-LED-2500/7500-218/258-4K
   -20°C ≤ Tamb ≤ +50°C – EXTRA-N-LED-5000-236-4K
   -20°C ≤ Tamb ≤ +40°C – EXTRA-N-LED-5000/10000-218/236-4K
   -20°C ≤ Tamb ≤ +35°C – EXTRA-N-LED-12550-258-4K
   0°C ≤ Tamb ≤ +35°C – MULTIEXTRA-N-LED-2500-218-4K
   0°C ≤ Tamb ≤ +45°C – MULTIEXTRA-N-LED-5000/7500-236/258-4K
   0°C ≤ Tamb ≤ +50°C – EXTRA-N-Em-LED-500-218/236/258-4K
2. The luminaire is intended for fixed installation and must be labelled "Warning - potential danger of electrostatic charging" - see Technical conditions.
3. The power supply cable shall be effectively fixed to prevent pulling or twisting.
4. The Technical conditions of maintenance must be complied.

Responsible person:

V.Z.

Dipl. Ing. Lukáš Martinák
Head of Certification Body

FYZIKÁLNĚ TECHNICKÝ ZKUŠEBNÍ ÚSTAV, s.p. FTZÚ Ex OSTRAVA-RADVANICE

Date of issue: 25.07.2017

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(13) **Schedule**

(14) # Supplementary Type Examination Certificate No. 1 to FTZÚ 16 ATEX 0102X

(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
	00	6	28.06.2017	Technical description
	03	1	12.06.2017	Technical conditions for mounting
Labels	02	2	12.06.2017	Drawing

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

(1) # Supplementary Type Examination Certificate No. 2

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

(3) Type Examination Examination Certificate number:

FTZÚ 16 ATEX 0102X

(4) Product: **Luminaire type EXTRA-N-LED; MULTIEXTRA-N-LED and EXTRA-N-LED-Em**

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

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

(7) This supplementary certificate extends Type Examination Certificate No. FTZÚ 16 ATEX 0102X 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 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 2014/34/EU of the European Parliament and of the Council, dated 26.02.2014.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018, EN IEC 60079-15:2017, EN 60079-31:2014

(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 3G Ex nR IIC T6 Gc

Ex II 3D Ex tc IIIC T80°C Dc

(12) This certificate is valid till: **31.10.2026**

Responsible person:

Dipl. Ing. Lukáš Martinák
Head of Certification Body

FYZIKÁLNĚ TECHNICKÝ ZKUŠEBNÍ ÚSTAV, s.p. • OSTRAVA-RADVANICE •

Date of issue: 29.10.2021

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Physical-Technical Testing Institute, s.p., Pikartská 1337/7, 716 07 Ostrava - Radvanice, The Czech Republic,
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(13) **Schedule**

(14) # Supplementary Type Examination Certificate No. 2 to FTZÚ 16 ATEX 0102X

(15) Description of the variation to the Product:

The subject of this supplementary certificate is:

- Modification of certified apparatus;
- Verification according to the newest standards EN IEC 60079-0:2018 and EN IEC 60079-15:2017;
- Prolongation of certificate validity.

Modification of the product includes these changes:

a) using of the new stainless steel clips;
b) material of sealing was changed;
c) the plastic material of the luminaire was changed (body and sight glass);
d) connection of LED modules to series and series-parallel – NON-SELV performance was added;
e) extension of the power range of luminaires;
f) change of maximum surface and service temperatures;
g) change of the ambient temperature for variants of luminaire – see clause (17).

Electrical parameters and type coding are unchanged.

The luminaire and its variants are verified according to the newest standards EN IEC 60079-0:2018 and EN IEC 60079-15:2017.

(16) Report Number: 16/0102/1

(17) Specific Conditions of Use:

1. Ambient temperature range:

-20°C ≤ Tamb ≤ +60°C	–	EXTRA-N-LED-2500/5000-218/236-4K
-20°C ≤ Tamb ≤ +55°C	–	EXTRA-N-LED-5000/7500-218/258-4K
-20°C ≤ Tamb ≤ +45°C	–	EXTRA-N-LED-12550-258-4K
-20°C ≤ Tamb ≤ +40°C	–	EXTRA-N-LED-10000-236-4K
-20°C ≤ Tamb ≤ +40°C	–	EXTRA-N-LED-16700-258-4K
-20°C ≤ Tamb ≤ +40°C	–	EXTRA-N-LED-20000-258-4K
0°C ≤ Tamb ≤ +35°C	–	MULTIEXTRA-N-LED-2500/12550-218/258-4K
0°C ≤ Tamb ≤ +40°C	–	MULTIEXTRA-N-LED-5000/7500-236/258-4K
0°C ≤ Tamb ≤ +50°C	–	EXTRA-N-LED-Em-500-218/236/258-4K

2. The luminaire is intended for fixed installation and must be labelled "Warning - potential danger of electrostatic charging" - see Technical conditions.
3. The power supply cable shall be effectively fixed to prevent pulling or twisting.
4. The Technical conditions of maintenance must be complied.

Responsible person:

Dipl. Ing. Lukáš Martinák
Head of Certification Body

FYZIKÁLNĚ TECHNICKÝ ZKUŠEBNÍ ÚSTAV, s.p. FTZÚ Ex OSTRAVA-RADVANICE

Date of issue: 29.10.2021

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(13) **Schedule**

(14) # Supplementary Type Examination Certificate No. 2 to FTZÚ 16 ATEX 0102X

(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	Sheets	Issue	Date	Description
--	6	00	26.10.2021	Technical description
--	3	01	27.07.2021	Technical conditions for mounting
Labels	3	04	29.09.2021	Drawing
--	1	--	16.08.2021	Assembly drawing
--	1	--	26.08.2021	Drawing of clip

Responsible person:

Dipl. Ing. Lukáš Martinák
Head of Certification Body

FYZIKÁLNĚ TECHNICKÝ ZKUŠEBNÍ ÚSTAV, s.p. OSTRAVA-RADVANICE

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