

## ENEC Certificate

This is to certify that:

TM Technologie sp. z o.o  
Morawica 355  
Morawica  
32-084  
Poland

Holds Certificate Number:

ENEC 652251

In respect of:

**EN 60598-2-22**  
**Emergency Luminaires**

(hereinafter called the certificate holder), having been assessed against the requirements of the CENELEC Agreement on the use of a commonly agreed Mark of Conformity for products complying with European standards (in short the ENEC Agreement), the right and Licence to use the commonly agreed Mark of Conformity for products shown below in respect of the goods particularly described in the Appendix bearing the same number as the certificate.

Goods shall be produced by the certificate holder only at the address given above in accordance with the relevant European Standard as detailed above. The Certificate is granted subject to the Specific Rules for the ENEC Agreement and the BSI Administration scheme.

For and on behalf of BSI:

  
Chris Lewis - Certification Director, Product Certification

First Issued: 2017-05-31

Latest Issue: 2017-10-27

Effective Date: 2017-10-27

Expiry Date: 2020-10-26



EUROPEAN  
NORMS  
ELECTRICAL  
CERTIFICATION



Page: 1 of 49

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# ENEC Certificate

No. ENEC 652251

**Emergency Luminaires to EN 60598-1:2015 and EN 60598-2-22:2014.**

**TM.ONTEC E range of Emergency Luminaires**

Test report 8523178-3

Model	Mode	Battery pack	Duration	Version
E1A 101 NM	NM	Ni-Cd HT 3.6V 400mAh/800mAh	1 Hr	ST
E1A 301 NM	NM	Ni-Cd HT 3.6V 800mAh	3 Hrs	ST
E1U 101 NM	NM	LiFePO4/C 6.4V 570mAh	1 Hr	ST
E1U 301 NM	NM	LiFePO4/C 6.4V 570mAh or 1000mAh	3 Hrs	ST
E1B 101 M w	M	Ni-Cd HT 3.6V 400mAh/800mAh	1 Hr	ST, AT, DATA, DATA 2
E1B 301 M w	M	Ni-Cd HT 3.6V 800mAh	3 Hrs	ST, AT, DATA, DATA 2
E1E 101 M w	M	LiFePO4/C 6.4V 570mAh	1 Hr	ST, AT, DATA, DATA 2
E1E 301 M w	M	LiFePO4/C 6.4V 570mAh or 1000mAh	3 Hrs	ST, AT, DATA, DATA 2
E1P 101 M w	M	LiFePO4/C 6.4V 570mAh or 1000mAh or 1500mAh	1 Hr	ST, AT, DATA, DATA 2
E1P 301 M w	M	LiFePO4/C 6.4V 1500mAh	3 Hrs	ST, AT, DATA, DATA 2
E1P 101 M w COLD	M	LiFePO4/C 6.4V 1500mAh	1 Hr	ST, AT, DATA, DATA 2
E1P 301 M w COLD	M	LiFePO4/C 6.4V 3000mAh	3 Hrs	ST, AT, DATA, DATA 2
E1B 101 NM w	NM	Ni-Cd HT 3.6V 400mAh/800mAh	1 Hr	ST, AT, DATA, DATA 2
E1B 301 NM w	NM	Ni-Cd HT 3.6V 800mAh	3 Hrs	ST, AT, DATA, DATA 2
E1E 101 NM w	NM	LiFePO4/C 6.4V 570mAh	1 Hr	ST, AT, DATA, DATA 2
E1E 301 NM w	NM	LiFePO4/C 6.4V 570mAh or 1000mAh	3 Hrs	ST, AT, DATA, DATA 2
E1P 101 NM w	NM	LiFePO4/C 6.4V 570mAh or 1000mAh or 1500mAh	1 Hr	ST, AT, DATA, DATA 2

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Latest Issue: 2017-10-27

Expiry Date: 2020-10-26

Page: 2 of 49

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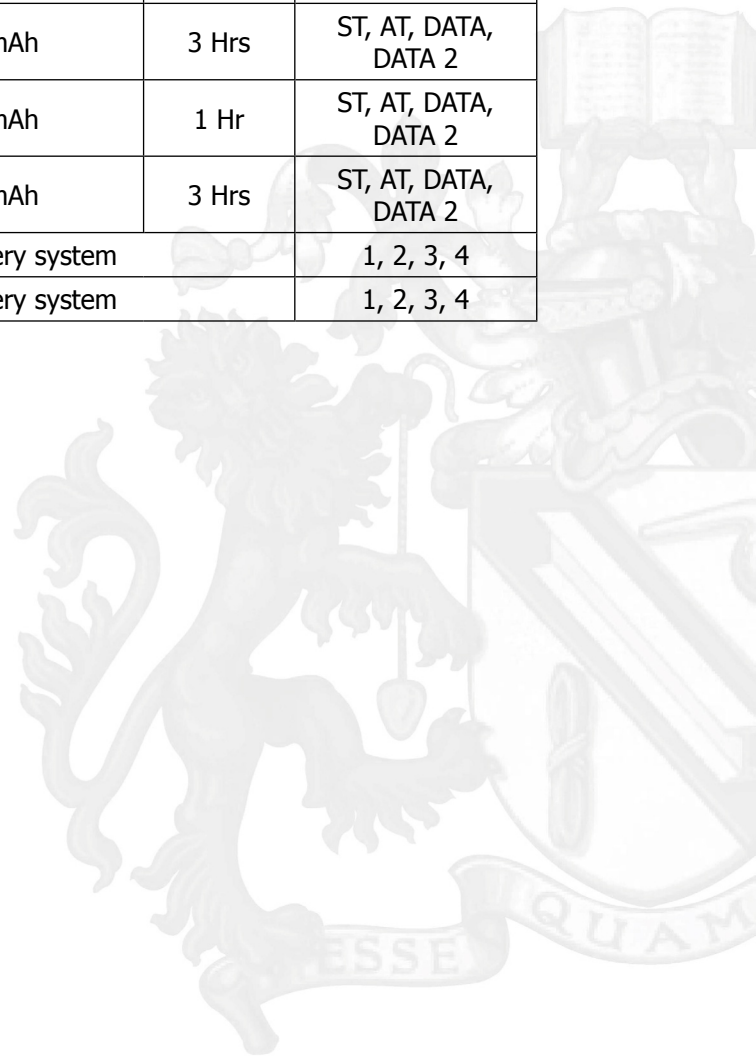
# ENEC Certificate

No. ENEC 652251

**Emergency Luminaires to EN 60598-1:2015 and EN 60598-2-22:2014.**

**TM.ONTEC E range continued**

Model	Mode	Battery pack	Duration	Version
E1P 301 NM w	NM	LiFePO4/C 6.4V 1500mAh	3 Hrs	ST, AT, DATA, DATA 2
E1P 101 NM w COLD	NM	LiFePO4/C 6.4V 1500mAh	1 Hr	ST, AT, DATA, DATA 2
E1P 301 NM w COLD	NM	LiFePO4/C 6.4V 3000mAh	3 Hrs	ST, AT, DATA, DATA 2
E1E 01 CBw		Dependent on Central battery system		1, 2, 3, 4
E1P 01 CBw		Dependent on Central battery system		1, 2, 3, 4



First Issued: 2017-05-31  
Latest Issue: 2017-10-27

Effective Date: 2017-10-27  
Expiry Date: 2020-10-26

Page: 3 of 49

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A member of BSI Group of Companies.

# ENEC Certificate

No. ENEC 652251

## Emergency Luminaires to EN 60598-1:2015 and BS EN 60598-2-22:2014.

### TM.ONTEC E range continued

Product	Emergency evacuation lighting luminaire with LED light source
Rated voltage	210-250 Vac - for self-contained 210-250Vac; 186-254Vdc - for centrally supplied
Nature of supply	ac/dc
Rated frequency	50-60Hz; dc
Class	II
Degree of protection	IP 20
Ambient temperature range (ta):	+10°C to +35°C for self-contained luminaires -15°C to +35°C for self-contained luminaires COLD version -10°C to +40°C for centrally supplied luminaires CB2, CB3, CB4 version -15°C to +55°C for centrally supplied luminaires CB1 version Self-contained maintain/non maintain and centrally supplied. Suitable for recessed or surface mounting and also can be used as Evacuation light
Description	
TM.ONTEC E	E1e Hpp A w [COLD]

### Legend:

e: U,A – control gear with AC transformer (only NM ST version, luminance >300 cd/m<sup>2</sup>)  
E,B – control gear with impulse power supply (luminance >300 cd/m<sup>2</sup>)  
P – control gear with impulse power supply (average luminance >500 cd/m<sup>2</sup>)

H: Duration time  
1 – 60 minutes / 3 - 180 minutes

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Page: 4 of 49

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# ENEC Certificate

No. ENEC 652251

**Emergency Luminaires to EN 60598-1:2015 and BS EN 60598-2-22:2014.**

## TM.ONTEC E range continued

Legend:

pp: LED power  
01 = 1W

A: Mode  
M - maintained mode / NM - non maintained mode

W: Test type/application  
ST - manual test  
AT - individual automatic test  
DATA, DATA 2 - central automatic test  
CBw - for central battery system  
CB1 - without additional module  
CB2 - version with addressable module DCBLU05  
CB3 - version with addressable module MU05  
CB4 - version with addressable module 010312

(ST, AT, DATA, DATA 2, CB) - connect the appropriate module

AT - PCB 010233 AT module  
DATA - PCB 010233 DATA module  
DATA 2 - PCB 010205A DATA 2 module  
ST, CB - without additional module

Mounting label: N - surface mounting, P - recessed

LiFePO4/C - battery pack with integrated charge/discharge controller.

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Expiry Date: 2020-10-26

Page: 5 of 49

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# ENEC Certificate

No. ENEC 652251

**Emergency Luminaires to EN 60598-1:2015 and EN 60598-2-22:2014.**

**TM.ONTEC G range of Emergency Luminaires**

Test report 8523178-4 /Rev 1

Model	Mode	Battery pack	Duration	Version
E1A 101 NM	NM	Ni-Cd HT 3.6V 400mAh/800mAh	1 Hr	ST
E1A 301 NM	NM	Ni-Cd HT 3.6V 800mAh	3 Hrs	ST
E1U 101 NM	NM	LiFePO4/C 6.4V 570mAh	1 Hr	ST
E1U 301 NM	NM	LiFePO4/C 6.4V 570mAh or 1000mAh	3 Hrs	ST
E1B 101 M w	M	Ni-Cd HT 3.6V 400mAh/800mAh	1 Hr	ST, AT, DATA, DATA 2
E1B 301 M w	M	Ni-Cd HT 3.6V 800mAh	3 Hrs	ST, AT, DATA, DATA 2
E1E 101 M w	M	LiFePO4/C 6.4V 570mAh	1 Hr	ST, AT, DATA, DATA 2
E1E 301 M w	M	LiFePO4/C 6.4V 570mAh or 1000mAh	3 Hrs	ST, AT, DATA, DATA 2
E1P 101 M w	M	LiFePO4/C 6.4V 570mAh	1 Hr	ST, AT, DATA, DATA 2
E1P 301 M w	M	LiFePO4/C 6.4V 1500mAh	3 Hrs	ST, AT, DATA, DATA 2
E1B 101 NM w	NM	Ni-Cd HT 3.6V 400mAh/800mAh	1 Hr	ST, AT, DATA, DATA 2
E1B 301 NM w	NM	Ni-Cd HT 3.6V 800mAh	3 Hrs	ST, AT, DATA, DATA 2
E1E 101 NM w	NM	LiFePO4/C 6.4V 570mAh	1 Hr	ST, AT, DATA, DATA 2
E1E 301 NM w	NM	LiFePO4/C 6.4V 570mAh or 1000mAh	3 Hrs	ST, AT, DATA, DATA 2
E1P 101 NM w	NM	LiFePO4/C 6.4V 570mAh	1 Hr	ST, AT, DATA, DATA 2
E1P 301 NM w	NM	LiFePO4/C 6.4V 1500mAh	3 Hrs	ST, AT, DATA, DATA 2
E1E 01 CBw		Dependent on Central battery system		1, 2
E1P 01 CBw		Dependent on Central battery system		1, 2

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Expiry Date: 2020-10-26

Page: 6 of 49

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# ENEC Certificate

No. ENEC 652251

## Emergency Luminaires to EN 60598-1:2015 and EN 60598-2-22:2014.

### TM.ONTEC G range continued

Product	Emergency evacuation lighting luminaire with LED light source
Rated voltage	210-250 Vac - for self-contained 210-250Vac; 186-254Vdc - for centrally supplied
Nature of supply	ac/dc
Rated frequency	50-60Hz; DC
Class	II
Degree of protection	IP 20
Ambient temperature range (ta):	+10°C to +35°C for self-contained luminaires -15°C to +35°C for self-contained luminaires COLD version -10°C to +40°C for centrally supplied luminaires CB2, CB3, CB4 version -15°C to +55°C for centrally supplied luminaires CB1 version Self-contained maintained/non maintained and centrally supplied Suitable for recessed or surface mounting and also can be used as evacuation light
TM.ONTEC G	E1e Hpp A w
Legend:	
e:	U,A – control gear with AC transformer (only NM ST version, luminance >300 cd/m <sup>2</sup> ) E,B – control gear with impulse power supply (luminance >300 cd/m <sup>2</sup> ) P – control gear with impulse power supply (average luminance >500 cd/m <sup>2</sup> )
H:	Duration time 1 – 60 minutes    3 – 180 minutes

First Issued: 2017-05-31  
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Page: 7 of 49

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# ENEC Certificate

No. ENEC 652251

**Emergency Luminaires to EN 60598-1:2015 and EN 60598-2-22:2014.**

## **TM.ONTEC G range continued**

### Description

pp: LED power  
01 = 1W

A: Mode  
M - maintained mode / NM - non maintained mode

w: Test type/application  
ST - manual test  
AT - individual automatic test  
DATA, DATA 2 - central automatic test  
CBw - for central battery system  
CB1 - without additional module  
CB2 – version with addressable module 0103012  
  
(ST, AT, DATA, DATA 2CB) - connect the appropriate module  
AT - PCB 010233 AT module  
DATA - PCB 010233 DATA module  
DATA 2 - PCB 010205A DATA 2 module  
ST, CB - without additional module  
  
Mounting label: N - surface mounting, P - recessed  
LiFePO4/C - battery pack with integrated charge/discharge controller.

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Page: 8 of 49

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# ENEC Certificate

No. ENEC 652251

**Emergency Luminaires to EN 60598-1:2015 and EN 60598-2-22:2014.**

**TM.ONTEC C range of Emergency Luminaires**

Test report 8523178-2/rev 1

Model	Mode	Battery pack	Duration	Version
M1U (C1U, W1U,S1U,F1U) 101 NM w	NM	Ni-Cd HT 3.6V 800mAh	1 Hr	ST
M1U (C1U, W1U,S1U,F1U) 301 NM w	NM	Ni-Cd HT 3.6V 1500mAh	3 Hrs	ST
M1M (C1M, W1M,S1M,F1M) 102 NM w	NM	Ni-Cd HT 3.6V 1500mAh	1 Hr	ST
M1M (C1M, W1M,S1M,F1M) 302 NM w	NM	Ni-Cd HT 3.6V 2500mAh	3 Hrs	ST
M1 (C1E,W1E,S1E,F1E) 101 M w	M	Ni-Cd HT 3.6V 800mAh	1 Hr	ST, AT, DATA, DATA 2
M1 (C1E,W1E,S1E,F1E) 301 M w	M	Ni-Cd HT 3.6V 1500mAh	3 Hrs	ST, AT, DATA, DATA 2
M2 (C1,W1,S1,F1) 102 M w	M	LiFePO4/C 6.4V 570mAh	1 Hr	ST, AT, DATA, DATA 2
M2 (C1,W1,S1,F1) 302 M w	M	LiFePO4/C 6.4V 1500mAh	3 Hrs	ST, AT, DATA, DATA 2
M2 (C1,W1,S1,F1) 102 M w COLD	M	LiFePO4/C 6.4V 1500mAh	1 Hr	ST, AT, DATA, DATA 2
M2 (C1,W1,S1,F1) 302 M w COLD	M	LiFePO4/C 6.4V 3000mAh	3 Hrs	ST, AT, DATA, DATA 2
M2H (C1H,W1H,S1H,F1H) 103 M w	M	LiFePO4/C 6.4V 1500mAh	1 Hr	ST, AT, DATA, DATA 2
M2H (C1H,W1H,S1H,F1H) 303 M w	M	LiFePO4/C 6.4V 3000mAh	3 Hrs	ST, AT, DATA, DATA 2
M2H (C1H,W1H,S1H,F1H) 103 M w COLD	M	LiFePO4/C 6.4V 3000mAh	1 Hr	ST, AT, DATA, DATA 2

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Expiry Date: 2020-10-26

Page: 9 of 49

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# ENEC Certificate

No. ENEC 652251

**Emergency Luminaires to EN 60598-1:2015 and EN 60598-2-22:2014.**

## TM.ONTEC C range continued

Model	Mode	Battery pack	Duration	Version
M1 (C1E, W1E,S1E,F1E) 101 NM w	NM	Ni-Cd HT 3.6V 800mAh	1 Hr	ST
M1 (C1E, W1E,S1E,F1E) 301 NM w	NM	Ni-Cd HT 3.6V 1500mAh	3 Hrs	ST
M2 (C1,W1,S1,F1) 102 NM w	NM	LiFePO4/C 6.4V 570mAh	1 Hr	ST
M2 (C1,W1,S1,F1) 302 NM w	NM	LiFePO4/C 6.4V 1500mAh	3 Hrs	ST
M2 (C1,W1,S1,F1) 102 NM w COLD	NM	LiFePO4/C 6.4V 1500mAh	1 Hr	ST, AT, DATA, DATA 2
M2 (C1,W1,S1,F1) 302 NM w COLD	NM	LiFePO4/C 6.4V 3000mAh	3 Hrs	ST, AT, DATA, DATA 2
M2H (C1H,W1H,S1H,F1H) 103 NM w	NM	LiFePO4/C 6.4V 1500mAh	1 Hr	ST, AT, DATA, DATA 2
M2H (C1H,W1H,S1H,F1H) 303 NM w	NM	LiFePO4/C 6.4V 3000mAh	3 Hrs	ST, AT, DATA, DATA 2
M2H (C1H,W1H,S1H,F1H) 103 NM w COLD	NM	LiFePO4/C 6.4V 3000mAh	1 Hr	ST, AT, DATA, DATA 2
M1 (C1E,W1E,S1E,F1E) 01 CBw	Dependent on Central battery system			1,2,3,4
M2 (C1,W1,S1,F1) 02 CBw	Dependent on Central battery system			1,2,3,4
M2H (C1H,W1H,S1H,F1H) 03 CBw	Dependent on Central battery system			1,2,3,4

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Page: 10 of 49

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# ENEC Certificate

No. ENEC 652251

**Emergency Luminaires to EN 60598-1:2015 and EN 60598-2-22:2014.**

## **TM.ONTEC C range continued**

Description

Product	Emergency evacuation lighting luminaire with LED light source
Rated voltage	210-250 Vac - for self-contained 210-250Vac; 186-254Vdc - for centrally supplied
Nature of supply	ac/dc
Rated frequency	50-60Hz; DC
Class	II
Degree of protection	IP 20
Ambient temperature range (ta):	+10°C to +35°C for self-contained luminaires -15°C to +35°C for self-contained luminaires COLD version -10°C to +40°C for centrally supplied luminaires CB2, CB3, CB4 version -15°C to +55°C for centrally supplied luminaires CB1 version Self-contained maintained/non maintained and centrally supplied Suitable for recessed mounting

Description

TM.ONTEC C Xnn Hpp A w (COLD)

### **Legend:**

X:

- Models M or C,W,S,F
- M – is luminaire without optics
- C – is luminaire with Emerald-A optic
- W – is luminaire with Strada-FT optic
- S – is luminaire with Strada-SQ-VSM optic
- F – is luminaire with Flare-MINI optic

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Page: 11 of 49

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# ENEC Certificate

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**Emergency Luminaires to EN 60598-1:2015 and EN 60598-2-22:2014.**

## **TM.ONTEC C range continued**

### Legend

Nn: 1U - Controlgear with AC transformer (only NM ST version, luminous flux >120 lm)  
1M - Controlgear with AC transformer (only NM ST version, luminous flux >240 lm)  
1 (for M), 1E - Controlgear with impulse power supply (luminous flux >120 lm)  
2 (for M), 1 - Controlgear with impulse power supply (luminous flux >240 lm)  
2H,1H - Controlgear with impulse power supply (luminous flux >350 lm)

H: Duration time  
1 – 60 minutes - 3 – 180 minutes

pp: LED power  
01 = 1W, 02 = 2W, 03 = 3W

A: Mode  
M - maintained mode / NM - non maintained mode

W: Test type/application  
ST - manual test  
AT - individual automatic test  
DATA, DATA 2 - central automatic test  
CBw - for central battery system  
CB1 - without additional module  
CB2 - version with addressable module DCBLU05  
CB3 – version with addressable module MU05  
CB4 – version with addressable module 010313

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Effective Date: 2017-10-27  
Expiry Date: 2020-10-26

Page: 12 of 49

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# ENEC Certificate

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**Emergency Luminaires to EN 60598-1:2015 and EN 60598-2-22:2014.**

**TM.ONTEC C range continued**

Legend

(ST, AT, DATA, DATA 2, CB) - connect the appropriate module

AT - PCB 010233 AT module

DATA - PCB 010233 DATA module

DATA 2 - PCB 010205A DATA 2 module

ST, CB - without additional module

LiFePO4/C - battery pack with integrated charge/discharge controller.



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Page: 13 of 49

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# ENEC Certificate

No. ENEC 652251

**Emergency Luminaires to EN 60598-1:2015 and EN 60598-2-22:2014.**

**TM.ONTEC D range of Emergency Luminaires**

Test report 8523178-5/Rev 1

Model	Mode	Battery pack	Duration	Version
M1U (C1U, W1U,S1U,F1U) 101 NM w	NM	Ni-Cd HT 3.6V 800mAh	1 Hr	ST
M1U (C1U, W1U,S1U,F1U) 301 NM w	NM	Ni-Cd HT 3.6V 1500mAh	3 Hrs	ST
M1M (C1M, W1M,S1M,F1M) 102 NM w	NM	Ni-Cd HT 3.6V 1500mAh	1 Hr	ST
M1M (C1M, W1M,S1M,F1M) 302 NM w	NM	Ni-Cd HT 3.6V 2500mAh	3 Hrs	ST
M1 (C1E,W1E,S1E,F1E) 101 M w	M	Ni-Cd HT 3.6V 800mAh	1 Hr	ST, AT, DATA, DATA 2
M1 (C1E,W1E,S1E,F1E) 301 M w	M	Ni-Cd HT 3.6V 1500mAh	3 Hrs	ST, AT, DATA, DATA 2
M2 (C1,W1,S1,F1) 102 M w	M	LiFePO4/C 6.4V 570mAh	1 Hr	ST, AT, DATA, DATA 2
M2 (C1,W1,S1,F1) 302 M w	M	LiFePO4/C 6.4V 1500mAh	3 Hrs	ST, AT, DATA, DATA 2
M2 (C1,W1,S1,F1) 102 M w COLD	M	LiFePO4/C 6.4V 1500mAh	1 Hr	ST, AT, DATA, DATA 2
M2 (C1,W1,S1,F1) 302 M w COLD	M	LiFePO4/C 6.4V 3000mAh	3 Hrs	ST, AT, DATA, DATA 2
M2H (C1H,W1H,S1E,F1H) 103 M w	M	LiFePO4/C 6.4V 1500mAh	1 Hr	ST, AT, DATA, DATA 2
M2H (C1H,W1H,S1H,F1H) 303 M w	M	LiFePO4/C 6.4V 3000mAh	3 Hrs	ST, AT, DATA, DATA 2
M2H (C1H,W1H,S1H,F1H) 103 M w COLD	M	LiFePO4/C 6.4V 3000mAh	1 Hr	ST, AT, DATA, DATA 2

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Latest Issue: 2017-10-27

Effective Date: 2017-10-27

Expiry Date: 2020-10-26

Page: 14 of 49

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# ENEC Certificate

No. ENEC 652251

**Emergency Luminaires to EN 60598-1:2015 and EN 60598-2-22:2014.**

**TM.ONTEC D range continued**

Model	Mode	Battery pack	Duration	Version
M1 (C1E, W1E,S1E,F1E) 101 NM w	NM	Ni-Cd HT 3.6V 800mAh	1 Hr	ST
M1 (C1E, W1E,S1E,F1E) 301 NM w	NM	Ni-Cd HT 3.6V 1500mAh	3 Hrs	ST
M2 (C1, W1,S1,F1) 102 NM w	NM	LiFePO4/C 6.4V 570mAh	1 Hr	ST
M2 (C1, W1,S1,F1) 302 NM w	NM	LiFePO4/C 6.4V 1500mAh	3 Hrs	ST
M2 (C1,W1,S1,F1) 102 NM w COLD	NM	LiFePO4/C 6.4V 1500mAh	1 Hr	ST, AT, DATA, DATA 2
M2 (C1,W1,S1,F1) 302 NM w COLD	NM	LiFePO4/C 6.4V 3000mAh	3 Hrs	ST, AT, DATA, DATA 2
M2H (C1H,W1H,S1H,F1H) 103 NM w	NM	LiFePO4/C 6.4V 1500mAh	1 Hr	ST, AT, DATA, DATA 2
M2H (C1H,W1H,S1H,F1H) 303 NM w	NM	LiFePO4/C 6.4V 3000mAh	3 Hrs	ST, AT, DATA, DATA 2
M2H (C1H,W1H,S1H,F1H) 103 NM w COLD	NM	LiFePO4/C 6.4V 3000mAh	1 Hr	ST, AT, DATA, DATA 2
M1 (C1E,W1E,S1E,F1E) 01 CBw	Dependent on Central battery system			1,2,3,4
M2 (C1,W1,S1,F1) 02 CBw	Dependent on Central battery system			1,2,3,4
M2H (C1H,W1H,S1H,F1H) 03 CBw	Dependent on Central battery system			1,2,3,4

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Expiry Date: 2020-10-26

Page: 15 of 49

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# ENEC Certificate

No. ENEC 652251

**Emergency Luminaires to EN 60598-1:2015 and EN 60598-2-22:2014.**

## **TM.ONTEC D range continued**

Description

Product	Emergency evacuation lighting luminaire with LED light source
Rated voltage	210-250 Vac - for self-contained 210-250Vac; 186-254Vdc - for centrally supplied
Nature of supply	ac/dc
Rated frequency	50-60Hz; DC
Class	II
Degree of protection	IP 20
Ambient temperature range (ta):	+10°C to +35°C for self-contained luminaires -15°C to +35°C for self-contained luminaires COLD version -10°C to +40°C for centrally supplied luminaires CB2, CB3, CB4 version -15°C to +55°C for centrally supplied luminaires CB1 version Self-contained maintained/non maintained and centrally supplied Suitable for recessed mounting

Description

TM.ONTEC D Xnn Hpp A w (COLD)

### **Legend:**

X:

- Models M or C,W,S,F
- M – is luminaire without optics
- C – is luminaire with Emerald-A optic
- W – is luminaire with Strada-FT optic
- S – is luminaire with Strada-SQ-VSM optic
- F – is luminaire with Flare-MINI optic

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Effective Date: 2017-10-27

Expiry Date: 2020-10-26

Page: 16 of 49

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# ENEC Certificate

No. ENEC 652251

**Emergency Luminaires to EN 60598-1:2015 and EN 60598-2-22:2014.**

## **TM.ONTEC D range continued**

Description

Legend

Nn: 1U - Controlgear with AC transformer (only NM ST version, luminous flux >120 lm)  
1M - Controlgear with AC transformer (only NM ST version, luminous flux >240 lm)  
1 (for M), 1E - Controlgear with impulse power supply (luminous flux >120 lm)  
2 (for M), 1 - Controlgear with impulse power supply (luminous flux >240 lm)  
2H,1H - Controlgear with impulse power supply (luminous flux >350 lm)

H: Duration time  
1 – 60 minutes - 3 – 180 minutes

pp: LED power  
01 = 1W, 02 = 2W, 03 = 3W

A: Mode  
M - maintained mode / NM - non maintained mode

W: Test type/application  
ST - manual test  
AT - individual automatic test  
DATA, DATA 2 - central automatic test  
CBw - for central battery system  
CB1 - without additional module  
CB2 - version with addressable module DCBLU05  
CB3 – version with addressable module MU05  
CB4 – version with addressable module 010313

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Latest Issue: 2017-10-27

Effective Date: 2017-10-27  
Expiry Date: 2020-10-26

Page: 17 of 49

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# ENEC Certificate

No. ENEC 652251

**Emergency Luminaires to EN 60598-1:2015 and EN 60598-2-22:2014.**

**TM.ONTEC D range continued**

Legend

(ST, AT, DATA, DATA 2, CB) - connect the appropriate module

AT - PCB 010233 AT module

DATA - PCB 010233 DATA module

DATA 2 - PCB 010205A DATA 2 module

ST, CB - without additional module

LiFePO<sub>4</sub>/C - battery pack with integrated charge/discharge controller.



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Latest Issue: 2017-10-27

Effective Date: 2017-10-27

Expiry Date: 2020-10-26

Page: 18 of 49

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# ENEC Certificate

No. ENEC 652251

**Emergency Luminaires to EN 60598-1:2015 and EN 60598-2-22:2014.**

**TM.ONTEC R range of Emergency Luminaires**

Test report 8523178-1/Rev 1

Model	Mode	Battery pack	Duration	Version
M1U (C1U,W1U,S1U,F1U) 101 NM w	NM	LiFePO4/C 3.2V 1000mAh	1 Hr	ST
M1U (C1U,W1U,S1U,F1U) 301 NM w	NM	LiFePO4/C 3.2V 1500mAh	3 Hrs	ST
M2 (C1,W1,S1,F1) 102 M w	M	LiFePO4/C 6.4V 1000mAh or 1500mAh	1 Hr	ST, AT, DATA, DATA 2
M2 (C1,W1,S1,F1) 302 M w	M	LiFePO4/C 6.4V 1500mAh	3 Hrs	ST, AT, DATA, DATA 2
M2 (C1,W1,S1,F1) 102 M w COLD	M	LiFePO4/C 6.4V 1500mAh	1 Hr	ST, AT, DATA, DATA 2
M2 (C1,W1,S1,F1) 302 M w COLD	M	LiFePO4/C 6.4V 3000mAh	3 Hrs	ST, AT, DATA, DATA 2
M5 (C2,W2,S2,F2) 105 M w	M	LiFePO4/C 6.4V 1500mAh	1 Hr	ST, AT, DATA, DATA 2
M5 (C2,W2,S2,F2) 305 M w	M	LiFePO4/C 6.4V 3000mAh	3 Hrs	ST, AT, DATA, DATA 2
M5 (C2,W2,S2,F2) 105 M w COLD	M	LiFePO4/C 6.4V 3000mAh	1 Hr	ST, AT, DATA, DATA 2
E1 301 M w	M	LiFePO4/C 3.2V 1000mAh or 1500mAh	3 Hrs	ST, AT, DATA, DATA 2
M2 (C1,W1,S1,F1) 102 NM w	NM	LiFePO4/C 6.4V 1000mAh or 1500mAh	1 Hr	ST, AT, DATA, DATA 2
M2 (C1,W1,S1,F1) 302 NM w	NM	LiFePO4/C 6.4V 1500mAh	3 Hrs	ST, AT, DATA, DATA 2
M2 (C1,W1,S1,F1) 102 NM w COLD	NM	LiFePO4/C 6.4V 1500mAh	1 Hr	ST, AT, DATA, DATA 2

First Issued: 2017-05-31

Latest Issue: 2017-10-27

Effective Date: 2017-10-27

Expiry Date: 2020-10-26

Page: 19 of 49

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# ENEC Certificate

No. ENEC 652251

**Emergency Luminaires to EN 60598-1:2015 and EN 60598-2-22:2014.**

**TM.ONTEC R range continued**

Model	Mode	Battery pack	Duration	Version
M2 (C1,W1,S1,F1) 302 NM w COLD	NM	LiFePO4/C 6.4V 3000mAh	3 Hrs	ST, AT, DATA, DATA 2
M5 (C2,W2,S2,F2) 105 NM w	NM	LiFePO4/C 6.4V 1500mAh	1 Hr	ST, AT, DATA, DATA 2
M5 (C2,W2,S2,F2) 305 NM w	NM	LiFePO4/C 6.4V 3000mAh	3 Hrs	ST, AT, DATA, DATA 2
M5 (C2,W2,S2,F2) 105 NM w COLD	NM	LiFePO4/C 6.4V 3000mAh	1 Hr	ST, AT, DATA, DATA 2
E1 301 NM w	NM	LiFePO4/C 3.2V 1000mAh or 1500mAh	3 Hrs	ST, AT, DATA, DATA 2
M2 (C1,W1,S1,F1) 02 CBw	Dependent on Central battery system			1, 2, 3
M5 (C2,W2,S2,F2) 05 CBw	Dependent on Central battery system			1, 2, 3
E1 01 CBw	Dependent on Central battery system			1, 2, 3

First Issued: 2017-05-31  
Latest Issue: 2017-10-27

Effective Date: 2017-10-27  
Expiry Date: 2020-10-26

Page: 20 of 49

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# ENEC Certificate

No. ENEC 652251

## Emergency Luminaires to EN 60598-1:2015 and EN 60598-2-22:2014.

### TM.ONTEC R range continued

Product	Emergency evacuation lighting luminaire with LED light source
Rated voltage	210-250 Vac - for self-contained 210-250Vac; 186-254Vdc - for centrally supplied
Nature of supply	ac/dc
Rated frequency	50-60Hz; DC
Class	II
Degree of protection	IP 20
Ambient temperature range (ta):	+10°C to +35°C for self-contained luminaires -15°C to +35°C for self-contained luminaires COLD version -10°C to +40°C for centrally supplied luminaires CB2, CB3, CB4 version -15°C to +55°C for centrally supplied luminaires CB1 version
Product	Self contained maintain/non-maintain and centrally supplied. Suitable for recessed or surface mounting and can also be used as Evacuation light

Description	
TM.ONTEC R	Xne Hpp A w [COLD]

#### Legend:

X:	Models M or C,W,S,F
	M – is luminaire without optics
	C – is luminaire with Emerald-A
	W – is luminaire with Strada-FT
	S – is luminaire with Strada-SQ-VSM
	F – is luminaire with Flare-MINI
	E – is luminaire with evacuation sign

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Latest Issue: 2017-10-27

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Expiry Date: 2020-10-26

Page: 21 of 49

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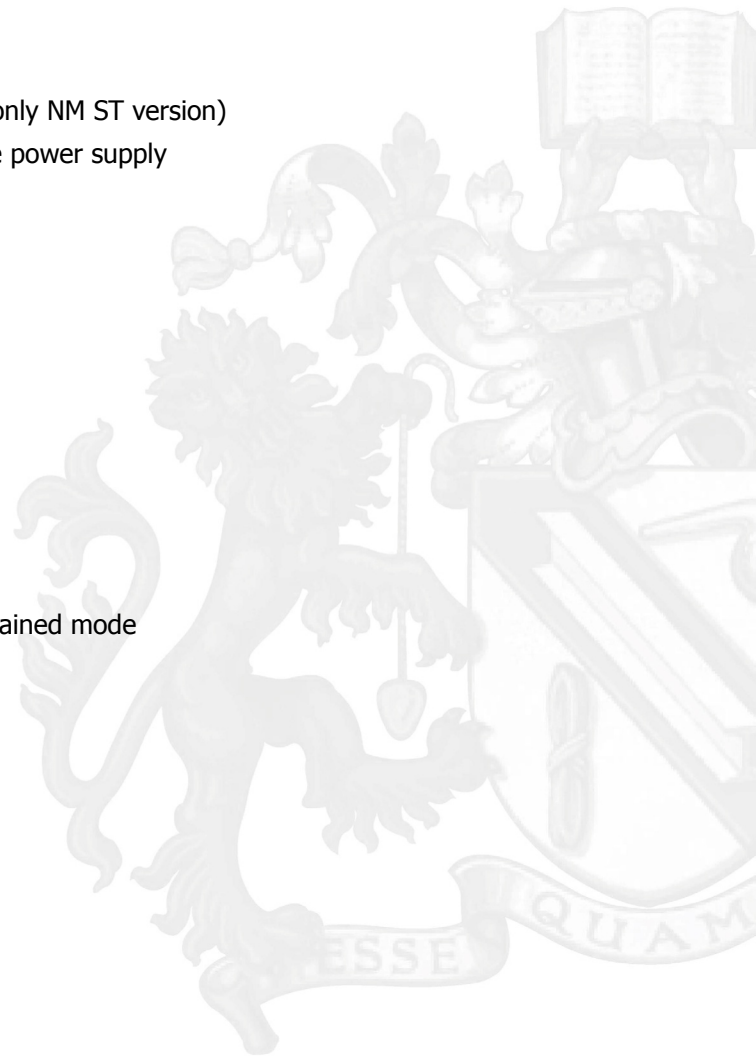
No. ENEC 652251

**Emergency Luminaires to EN 60598-1:2015 and EN 60598-2-22:2014.**

## **TM.ONTEC R range continued**

Legend:

- n:                    1 – 1 LED for C,W,F,S or 8 LED for E  
                         2 – 010293, 2 LED for C,W,F,S or 1 LED for M  
                         5 – 010293, 2 LED for M
- e:                    U – control gear with AC transformer (only NM ST version)  
                         No marking – control gear with impulse power supply
- h:                    Duration time  
                         1 – 60 minutes / 3 - 180 minutes
- pp:                   LED power  
                         01 = 1W  
                         02 = 2W  
                         05 = 5W
- A:                    Mode  
                         M - maintained mode / NM - non maintained mode



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Latest Issue: 2017-10-27

Effective Date: 2017-10-27  
Expiry Date: 2020-10-26

Page: 22 of 49

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# ENEC Certificate

No. ENEC 652251

**Emergency Luminaires to EN 60598-1:2015 and EN 60598-2-22:2014.**

## **TM.ONTEC R range continued**

Legend :

W :                      Test type/application  
ST - manual test  
AT - individual automatic test  
DATA, DATA 2 - central automatic test  
CBw - for central battery system  
CB1 - without additional module  
CB2 - version with addressable module DCBLU05  
CB3 - version with addressable module 010311

(ST, AT, DATA, DATA 2, CB) - connect the appropriate module

AT                      - PCB 010233 AT module  
DATA                   - PCB 010233 DATA module  
DATA 2                - PCB 010205A DATA 2 module  
ST, CB                - without additional module

Mounting label: N - surface mounting, P - recessed

LiFePO4/C - battery pack with integrated charge/discharge controller.

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Latest Issue: 2017-10-27

Effective Date: 2017-10-27  
Expiry Date: 2020-10-26

Page: 23 of 49

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# ENEC Certificate

No. ENEC 652251

**Emergency Luminaires to EN 60598-1:2015 and EN 60598-2-22:2014.**

**TM.PRIMO E range of Emergency Luminaires**

Test report number 8523181-3

Model	Mode	Battery pack	Duration	Version
E1A 101 NM	NM	Ni-Cd HT 3.6V 400mAh/800mAh	1 Hr	ST
E2(3)A 101 NM	NM	Ni-Cd HT 3.6V 400mAh/800mAh	1 Hr	ST
E4A 101 NM	NM	Ni-Cd HT 3.6V 400mAh/800mAh	1 Hr	ST
E1A 301 NM	NM	Ni-Cd HT 3.6V 800mAh	3 Hrs	ST
E2(3)A 301 NM	NM	Ni-Cd HT 3.6V 800mAh	3 Hrs	ST
E4A 301 NM	NM	Ni-Cd HT 3.6V 800mAh	3 Hrs	ST
E1U 101 NM	NM	LiFePO4/C 6.4V 570mAh	1 Hr	ST
E2(3)U 101 NM	NM	LiFePO4/C 6.4V 570mAh	1 Hr	ST
E4U 101 NM	NM	LiFePO4/C 6.4V 570mAh	1 Hr	ST
E1U 301 NM	NM	LiFePO4/C 6.4V 570mAh or 1000mAh or 1500mAh	3 Hrs	ST
E2(3)U 301 NM	NM	LiFePO4/C 6.4V 570mAh or 1000mAh or 1500mAh	3 Hrs	ST
E4U 301 NM	NM	LiFePO4/C 6.4V 570mAh or 1000mAh or 1500mAh	3 Hrs	ST
E1B 101 M(NM) w	M/NM	Ni-Cd HT 3.6V 400mAh/800mAh	1 Hr	ST, AT, DATA, DATA2
E2(3)B 101 M(NM) w	M/NM	Ni-Cd HT 3.6V 400mAh/800mAh	1 Hr	ST, AT, DATA, DATA2
E4B 101 M(NM) w	M/NM	Ni-Cd HT 3.6V 400mAh/800mAh	1 Hr	ST, AT, DATA, DATA2

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Page: 24 of 49

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# ENEC Certificate

No. ENEC 652251

**Emergency Luminaires to EN 60598-1:2015 and EN 60598-2-22:2014.**

**TM.PRIMO E range of Emergency Luminaires continued**

Model	Mode	Battery pack	Duration	Version
E1B 301 M(NM) w	M/NM	Ni-Cd HT 3.6V 800mAh	3 Hrs	ST, AT, DATA, DATA2
E2(3)B 301 M(NM) w	M/NM	Ni-Cd HT 3.6V 800mAh	3 Hrs	ST, AT, DATA, DATA2
E4B 301 M(NM) w	M/NM	Ni-Cd HT 3.6V 800mAh	3 Hrs	ST, AT, DATA, DATA2
E1E 101 M(NM) w	M/NM	LiFePO4/C 6.4V 570mAh	1 Hr	ST, AT, DATA, DATA2
E2(3)E 101 M(NM) w	M/NM	LiFePO4/C 6.4V 570mAh	1 Hr	ST, AT, DATA, DATA2
E4E 101 M(NM) w	M/NM	LiFePO4/C 6.4V 570mAh	1 Hr	ST, AT, DATA, DATA2
E1E 301 M(NM) w	M/NM	LiFePO4/C 6.4V 570mAh or 1000mAh or 1500mAh	3 Hrs	ST, AT, DATA, DATA2
E2(3)E 301 M(NM) w	M/NM	LiFePO4/C 6.4V 570mAh or 1000mAh or 1500mAh	3 Hrs	ST, AT, DATA, DATA2
E4E 301 M(NM) w	M/NM	LiFePO4/C 6.4V 570mAh or 1000mAh or 1500mAh	3 Hrs	ST, AT, DATA, DATA2
E1P 101 M(NM) w	M/NM	LiFePO4/C 6.4V 570mAh or LiFePO4/C 6.4V 1000mAh or 1500mAh	1 Hr	ST, AT, DATA, DATA2
E2(3)P 101 M(NM) w	M/NM	LiFePO4/C 6.4V 570mAh or LiFePO4/C 6.4V 1000mAh or 1500mAh	1 Hr	ST, AT, DATA, DATA2

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Latest Issue: 2017-10-27

Effective Date: 2017-10-27

Expiry Date: 2020-10-26

Page: 25 of 49

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# ENEC Certificate

No. ENEC 652251

**Emergency Luminaires to EN 60598-1:2015 and EN 60598-2-22:2014.**

**TM.PRIMO E range of Emergency Luminaires continued**

Model	Mode	Battery pack	Duration	Version
E4P 102 M(NM) w	M/NM	LiFePO4/C 6.4V 570mAh or LiFePO4/C 6.4V 1000mAh or 1500mAh	1 Hr	ST, AT, DATA, DATA2
E1P 301 M(NM) w	M/NM	LiFePO4/C 6.4V 1500mAh or 1000mAh	3 Hrs	ST, AT, DATA, DATA2
E2(3)P 301 M(NM) w	M/NM	LiFePO4/C 6.4V 1500mAh or 1000mAh	3 Hrs	ST, AT, DATA, DATA2
E4P 302 M(NM) w	M/NM	LiFePO4/C 6.4V 1500mAh or 1000mAh	3 Hrs	ST, AT, DATA, DATA2
E1E 01 CBm		Dependent on Central battery system		1,2
E2(3)E 01 CBm		Dependent on Central battery system		1,2
E4E 01 CBm		Dependent on Central battery system		1,2
E1P 01 CBm		Dependent on Central battery system		1,2
E2(3) 01 CBm		Dependent on Central battery system		1,2
E4P 02 CBm		Dependent on Central battery system		1,2

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Page: 26 of 49

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# ENEC Certificate

No. ENEC 652251

**Emergency Luminaires to EN 60598-1:2015 and EN 60598-2-22:2014.**

## **TM.PRIMO E range of Emergency Luminaires continued**

Product	Emergency evacuation lighting luminaire with LED light source
Rated voltage	230 Vac - for self-contained 230 Vac; 216Vdc - for centrally supplied
Nature of supply	ac/dc
Rated frequency	50-60Hz; dc
Class	I
Degree of protection	IP 20
Ambient temperature range (ta):	+10°C to +35°C for self-contained luminaires -10°C to +40°C for centrally supplied luminaires CB2 version -15°C to +55°C for centrally supplied luminaires CB1 version Self-contained maintain/non maintain and centrally supplied. Suitable for recessed or surface mounting and also can be used as a one side evacuation light

Description  
TM.PRIMO E Ere Hpp A w

### Legend:

r:	1 – pictogram dimension 125 x 250[mm] 2 – pictogram dimension 150 x 300[mm] 3 – pictogram dimension 158 x 306[mm] 4 – pictogram dimension 170 x 340[mm]
e:	U,A – control gear with AC transformer (only NM ST version, luminance <500 cd/m <sup>2</sup> ) E,B – control gear with impulse power supply (luminance <500 cd/m <sup>2</sup> ) P – control gear with impulse power supply (average luminance >500 cd/m <sup>2</sup> )
H:	Duration time 1 – 60 minutes / 3 - 180 minutes

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Latest Issue: 2017-10-27

Effective Date: 2017-10-27  
Expiry Date: 2020-10-26

Page: 27 of 49

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# ENEC Certificate

No. ENEC 652251

**Emergency Luminaires to EN 60598-1:2015 and EN 60598-2-22:2014.**

## **TM.PRIMO E range of Emergency Luminaires continued**

### Legend:

pp: LED power  
01 = 1W  
02 = 2W

A: Mode  
M - maintained mode / NM - non maintained mode

W: Test type/application  
ST - manual test  
AT - individual automatic test  
DATA, DATA 2 - central automatic test  
CBw - for central battery system  
CB1 - without additional module  
CB2 - version with addressable module 010311 (TM-AM 02V)

(ST, AT, DATA, DATA 2, CB) - connect the appropriate module

AT	- PCB 010233 AT module
DATA	- PCB 010233 DATA module
DATA 2	- PCB 010205A(B) DATA 2 module
ST, CB	- without additional module

Mounting label: N - surface mounting, P - recessed

LiFePO4/C - battery pack with integrated charge/discharge controller.

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Expiry Date: 2020-10-26

Page: 28 of 49

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# ENEC Certificate

No. ENEC 652251

**Emergency Luminaires to EN 60598-1:2015 and EN 60598-2-22:2014.**

**TM.PRIMO G range of Emergency Luminaires**

Test report number 8523181-4

Model	Mode	Battery pack	Duration	Version
E1A 101 NM	NM	Ni-Cd HT 3.6V 400mAh/800mAh	1 Hr	ST
E2(3)A 101 NM	NM	Ni-Cd HT 3.6V 400mAh/800mAh	1 Hr	ST
E4A 101 NM	NM	Ni-Cd HT 3.6V 400mAh/800mAh	1 Hr	ST
E1A 301 NM	NM	Ni-Cd HT 3.6V 800mAh	3 Hrs	ST
E2(3)A 301 NM	NM	Ni-Cd HT 3.6V 800mAh	3 Hrs	ST
E4A 301 NM	NM	Ni-Cd HT 3.6V 800mAh	3 Hrs	ST
E1U 101 NM	NM	LiFePO4/C 6.4V 570mAh	1 Hr	ST
E2(3)U 101 NM	NM	LiFePO4/C 6.4V 570mAh	1 Hr	ST
E4U 101 NM	NM	LiFePO4/C 6.4V 570mAh	1 Hr	ST
E1U 301 NM	NM	LiFePO4/C 6.4V 570mAh or 1000mAh or 1500mAh	3 Hrs	ST
E2(3)U 301 NM	NM	LiFePO4/C 6.4V 570mAh or 1000mAh or 1500mAh	3 Hrs	ST
E4U 301 NM	NM	LiFePO4/C 6.4V 570mAh or 1000mAh or 1500mAh	3 Hrs	ST
E1B 101 M(NM) w	M/NM	Ni-Cd HT 3.6V 400mAh/800mAh	1 Hr	ST, AT, DATA, DATA2
E2(3)B 101 M(NM) w	M/NM	Ni-Cd HT 3.6V 400mAh/800mAh	1 Hr	ST, AT, DATA, DATA2

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Latest Issue: 2017-10-27

Effective Date: 2017-10-27

Expiry Date: 2020-10-26

Page: 29 of 49

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# ENEC Certificate

No. ENEC 652251

**Emergency Luminaires to EN 60598-1:2015 and EN 60598-2-22:2014.**

**TM.PRIMO G range of Emergency Luminaires continued**

Model	Mode	Battery pack	Duration	Version
E4B 101 M(NM) w	M/NM	Ni-Cd HT 3.6V 400mAh/800mAh	1 Hr	ST, AT, DATA, DATA2
E1B 301 M(NM) w	M/NM	Ni-Cd HT 3.6V 800mAh	3 Hrs	ST, AT, DATA, DATA2
E2(3)B 301 M(NM) w	M/NM	Ni-Cd HT 3.6V 800mAh	3 Hrs	ST, AT, DATA, DATA2
E4B 301 M(NM) w	M/NM	Ni-Cd HT 3.6V 800mAh	3 Hrs	ST, AT, DATA, DATA2
E1E 101 M(NM) w	M/NM	LiFePO4/C 6.4V 570mAh	1 Hr	ST, AT, DATA, DATA2
E2(3)E 101 M(NM) w	M/NM	LiFePO4/C 6.4V 570mAh	1 Hr	ST, AT, DATA, DATA2
E4E 101 M(NM) w	M/NM	LiFePO4/C 6.4V 570mAh	1 Hr	ST, AT, DATA, DATA2
E1E 301 M(NM) w	M/NM	LiFePO4/C 6.4V 570mAh or 1000mAh or 1500mAh	3 Hrs	ST, AT, DATA, DATA2
E2(3)E 301 M(NM) w	M/NM	LiFePO4/C 6.4V 570mAh or 1000mAh or 1500mAh	3 Hrs	ST, AT, DATA, DATA2
E4E 301 M(NM) w	M/NM	LiFePO4/C 6.4V 570mAh or 1000mAh or 1500mAh	3 Hrs	ST, AT, DATA, DATA2
E1P 101 M(NM) w	M/NM	LiFePO4/C 6.4V 570mAh LiFePO4/C 6.4V 1000mAh or 1500mAh	1 Hr	ST, AT, DATA, DATA2
E2(3)P 101 M(NM) w	M/NM	LiFePO4/C 6.4V 570mAh LiFePO4/C 6.4V 1000mAh or 1500mAh	1 Hr	ST, AT, DATA, DATA2

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Latest Issue: 2017-10-27

Effective Date: 2017-10-27

Expiry Date: 2020-10-26

Page: 30 of 49

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# ENEC Certificate

No. ENEC 652251

**Emergency Luminaires to EN 60598-1:2015 and EN 60598-2-22:2014.**

**TM.PRIMO G range of Emergency Luminaires continued**

Model	Mode	Battery pack	Duration	Version
E4P 102 M(NM)	M/NM	LiFePO4/C 6.4V 570mAh LiFePO4/C 6.4V 1000mAh or 1500mAh	1 Hr	ST, AT, DATA, DATA2
E1D 101 M(NM) w	M/NM	LiFePO4/C 6.4V 570mAh LiFePO4/C 6.4V 1000mAh or 1500mAh	1 Hr	ST, AT, DATA, DATA2
E2(3)D 101 M(NM) w	M/NM	LiFePO4/C 6.4V 570mAh LiFePO4/C 6.4V 1000mAh or 1500mAh	1 Hr	ST, AT, DATA, DATA2
E4D 102 M(NM) w	M/NM	LiFePO4/C 6.4V 1500mAh or 1000mAh	1 Hr	ST, AT, DATA, DATA2
E1P 301 M(NM) w	M/NM	LiFePO4/C 6.4V 1500mAh or 1000mAh	3 Hrs	ST, AT, DATA, DATA2
E2(3)P 301 M(NM) w	M/NM	LiFePO4/C 6.4V 1500mAh or 1000mAh	3 Hrs	ST, AT, DATA, DATA2
E4P 302 M(NM) w	M/NM	LiFePO4/C 6.4V 1500mAh	3 Hrs	ST, AT, DATA, DATA2
E1D 301 M(NM) w	M/NM	LiFePO4/C 6.4V 1500mAh	3 Hrs	ST, AT, DATA, DATA2
E2(3)D 301 M(NM) w	M/NM	LiFePO4/C 6.4V 1500mAh	3 Hrs	ST, AT, DATA, DATA2
E4D 302 M(NM) w	M/NM	LiFePO4/C 6.4V 3000mAh or LiFePO4/C 6.4V 2000mAh	3 Hrs	ST, AT, DATA, DATA2
E1E 01 CBm		Dependent of central battery system		1,2
E2(3)E 01 CBm		Dependent of central battery system		1,2
E4E 01 CBm		Dependent of central battery system		1,2

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Expiry Date: 2020-10-26

Page: 31 of 49

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# ENEC Certificate

No. ENEC 652251

**Emergency Luminaires to EN 60598-1:2015 and EN 60598-2-22:2014.**

**TM.PRIMO G range of Emergency Luminaires continued**

Model	Mode	Battery pack	Duration	Version
E1P 01 CBm		Dependent of central battery system		1,2
E2(3)P 01 CBm		Dependent of central battery system		1,2
E4P 02 CBm		Dependent of central battery system		1,2
E1D 01 CBm		Dependent of central battery system		1,2
E2(3)D 01CBm		Dependent of central battery system		1,2
E4D 02 CBm		Dependent of central battery system		1,2

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Latest Issue: 2017-10-27

Effective Date: 2017-10-27

Expiry Date: 2020-10-26

Page: 32 of 49

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# ENEC Certificate

No. ENEC 652251

**Emergency Luminaires to EN 60598-1:2015 and EN 60598-2-22:2014.**

## **TM.PRIMO G range of Emergency Luminaires**

Product	Emergency evacuation lighting luminaire with LED light source
Rated voltage	230 Vac - for self-contained 230 Vac; 216Vdc - for centrally supplied
Nature of supply	ac/dc
Rated frequency	50-60Hz; DC
Class	I
Degree of protection	IP 20
Ambient temperature range (ta):	+10°C to +35°C for self-contained luminaires -10°C to +40°C for centrally supplied luminaires CB2 version -15°C to +55°C for centrally supplied luminaires CB1 version Self-contained maintained/non maintained and centrally supplied Suitable for surface mounting and also can be use as one side or two side evacuation light.

TM.PRIMO G Ere Hpp A w

### Legend:

r:

- 1 - pictogram dimension 125 x 250 [mm]
- 2 - pictogram dimension 150 x 300 [mm]
- 3 - pictogram dimension 158 x 306 [mm]
- 4 - pictogram dimension 170 x 340 [mm]

e:

- U,A – control gear with AC transformer (only NM ST version, luminance <500 cd/m<sup>2</sup>)
- E,B – control gear with impulse power supply (luminance <500 cd/m<sup>2</sup>)
- P – controlgear with impulse power supply (average luminance >500 cd/m<sup>2</sup>, pictogram one side)
- D – controlgear with impulse power supply (average luminance >500 cd/m<sup>2</sup>, pictogram two side)

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Latest Issue: 2017-10-27

Effective Date: 2017-10-27

Expiry Date: 2020-10-26

Page: 33 of 49

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# ENEC Certificate

No. ENEC 652251

**Emergency Luminaires to EN 60598-1:2015 and EN 60598-2-22:2014.**

## **PRIMO G range of Emergency Luminaires**

Description:

H:	Duration time 1 – 60 minutes    3 – 180 minutes
pp:	LED power 01 = 1W 02 = 2W
A:	Mode M - maintained mode / NM - non maintained mode
w:	Test type/application ST - manual test AT - individual automatic test DATA, DATA 2 - central automatic test CBw - for central battery system CB1 - without additional module CB2 – version with addressable module 0103012 (TM-AM 02H)  (ST, AT, DATA, DATA 2CB) - connect the appropriate module AT            - PCB 010233 AT module DATA            - PCB 010233 DATA module DATA 2            - PCB 010205A(B) DATA 2 module ST, CB            - without additional module  Cable entry label: C - on ceiling, W - on wall (both surface mounting luminaires) LiFePO4/C - battery pack with integrated charge/discharge controller.

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Expiry Date: 2020-10-26

Page: 34 of 49

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# ENEC Certificate

No. ENEC 652251

**Emergency Luminaires to EN 60598-1:2015 and EN 60598-2-22:2014.**

**TM.PRIMO D range of Emergency Luminaires**

Test report number 8523181-2

Model	Mode	Battery pack	Duration	Version
M1U (C1U, W1U, S1U, F1U) 101 NM w	NM	Ni-Cd HT 3.6V 800mAh	1 Hr	ST
M1U (C1U, W1U, S1U, F1U) 301 NM w	NM	Ni-Cd HT 3.6V 1500mAh	3 Hrs	ST
M1M (C1M, W1M, S1M, F1M) 102 NM w	NM	Ni-Cd HT 3.6V 1500mAh	1 Hr	ST
M1M (C1M, W1M, S1M, F1M) 302 NM w	NM	Ni-Cd HT 3.6V 2500mAh	3 Hrs	ST
M1 (C1E, W1E, S1E, F1E) 101 M(NM) w	M/NM	Ni-Cd HT 3.6V 800mAh	1 Hr	ST, AT, DATA, DATA2
M1 (C1E, W1E, S1E, F1E) 301 M(NM) w	M/NM	Ni-Cd HT 3.6V 1500mAh	3 Hrs	ST, AT, DATA, DATA2
M2 (C1, W1, S1, F1) 102 M(NM) w	M/NM	LiFePO4/C 6.4V 570mAh	1 Hr	ST, AT, DATA, DATA2
M2 (C1, W1, S1, F1) 302 M(NM) w	M/NM	LiFePO4/C 6.4V 1500mAh	3 Hrs	ST, AT, DATA, DATA2
M2H (C1H, W1H, S1H, F1H) 103 M(NM) w	M/NM	LiFePO4/C 6.4V 1500mAh	1 Hr	ST, AT, DATA, DATA2
M2H (C1H, W1H, S1H, F1H) 303 M(NM) w	M/NM	LiFePO4/C 6.4V 3000mAh	3 Hrs	ST, AT, DATA, DATA2

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Expiry Date: 2020-10-26

Page: 35 of 49

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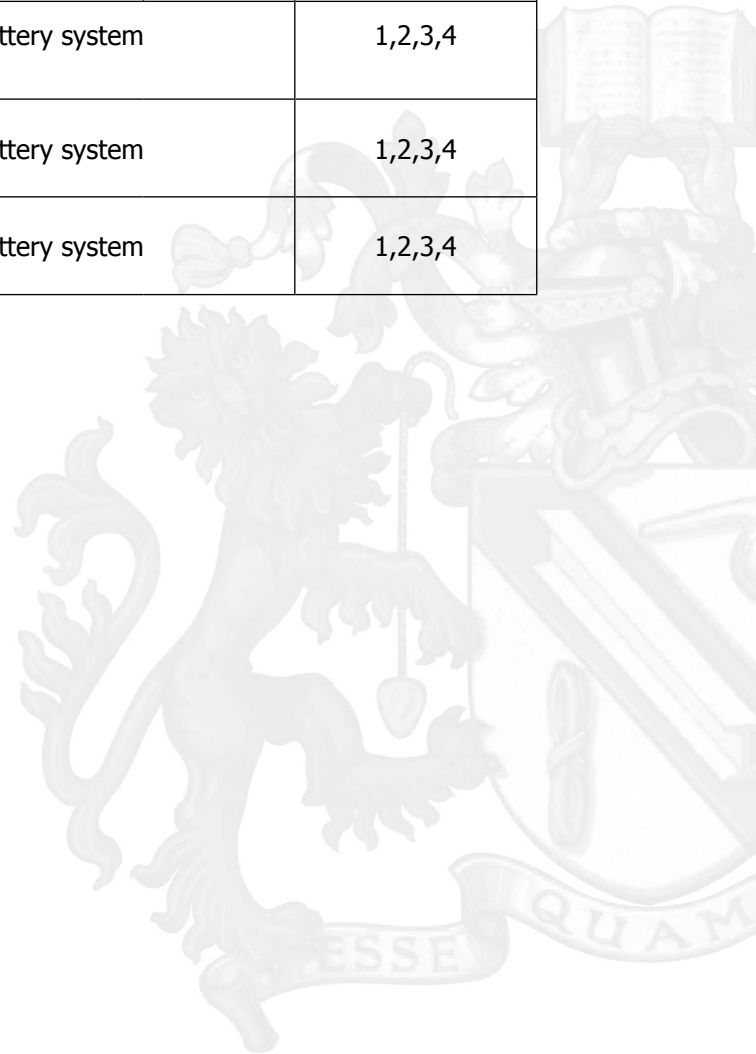
# ENEC Certificate

No. ENEC 652251

**Emergency Luminaires to EN 60598-1:2015 and EN 60598-2-22:2014.**

**TM.PRIMO D range of Emergency Luminaires continued**

Model	Mode	Battery pack	Duration	Version
M1 (C1E, W1E, S1E, F1E) 01 CBw		Dependent on central battery system		1,2,3,4
M2 (C1, W1, S1, F1) 02 CBw		Dependent on central battery system		1,2,3,4
M2H (C1H, W1H, S1H, F1H) 03 CBw		Dependent on central battery system		1,2,3,4



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Expiry Date: 2020-10-26

Page: 36 of 49

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# ENEC Certificate

No. ENEC 652251

**Emergency Luminaires to EN 60598-1:2015 and EN 60598-2-22:2014.**

## **TM.PRIMO D range of Emergency Luminaires continued**

### Description

Product	Emergency evacuation lighting luminaire with LED light source
Rated voltage	230 Vac - for self-contained 230 Vac; 186-216Vdc - for centrally supplied
Nature of supply	ac/dc
Rated frequency	50-60Hz; DC
Class	I
Degree of protection	IP 20
Ambient temperature range (ta):	+10°C to +35°C for self-contained luminaires -10°C to +40°C for centrally supplied luminaires CB2, CB3, CB4 version -15°C to +55°C for centrally supplied luminaires CB1 version Self-contained maintained/non maintained and centrally supplied Suitable for recessed mounting

### Description

TM.PRIMO D Xnn Hpp A w

### Legend:

X:  
Models M or C,W,S,F  
M – is luminaire without optics  
C – is luminaire with Emerald-A optic  
W – is luminaire with Strada-FT optic  
S – is luminaire with Strada-SQ-VSM optic  
F – is luminaire with Flare-MINI optic

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Latest Issue: 2017-10-27

Effective Date: 2017-10-27

Expiry Date: 2020-10-26

Page: 37 of 49

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# ENEC Certificate

No. ENEC 652251

**Emergency Luminaires to EN 60598-1:2015 and EN 60598-2-22:2014.**

## TM.PRIMO D range of Emergency Luminaires continued

Description

Legend

nn: 1U - Controlgear with AC transformer (only NM ST version, luminous flux >120 lm)  
1M - Controlgear with AC transformer (only NM ST version, luminous flux >240 lm)  
1 (for M), 1E - Controlgear with impulse power supply (luminous flux >120 lm)  
2 (for M), 1 - Controlgear with impulse power supply (luminous flux >240 lm)  
2H,1H - Controlgear with impulse power supply (luminous flux >350 lm)

H: Duration time  
1 – 60 minutes - 3 – 180 minutes

pp: LED power  
01 = 1W, 02 = 2W, 03 = 3W

A: Mode  
M - maintained mode / NM - non maintained mode

W: Test type/application  
ST - manual test  
AT - individual automatic test  
DATA, DATA 2 - central automatic test  
CBw - for central battery system  
CB1 - without additional module  
CB2 - version with addressable module DCBLU05  
CB3 – version with addressable module MU05  
CB4 – version with addressable module 010313

Legend

(ST, AT, DATA, DATA 2, CB) - connect the appropriate module  
AT - PCB 010233 AT module  
DATA - PCB 010233 DATA module  
DATA 2 - PCB 010205A(B) DATA 2 module  
ST, CB - without additional module

LiFePO4/C - battery pack with integrated charge/discharge controller.

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Expiry Date: 2020-10-26

Page: 38 of 49

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# ENEC Certificate

No. ENEC 652251

**Emergency Luminaires to EN 60598-1:2015 and EN 60598-2-22:2014.**

**TM.PRIMO R range Emergency Luminaires**

Test report number 8523181-1

Model	Mode	Battery pack	Duration	Version
M1U (C1U, W1U, S1U, F1U) 101 NM w	NM	LiFePO4/C 3.2V 1000mAh	1 Hr	ST
M1U (C1U, W1U, S1U, F1U) 301 NM w	NM	LiFePO4/C 3.2V 1500mAh	3 Hrs	ST
M2 (C1, W1, S1, F1) 102 M(NM) w	M/NM	LiFePO4/C 6.4V 1000mAh or 1500mAh	1 Hr	ST, AT, DATA, DATA2
M2 (C1, W1, S1, F1) 302 M(NM) w	M/NM	LiFePO4/C 6.4V 1500mAh	3 Hrs	ST, AT, DATA, DATA2
M5 (C2, W2, S2, F2) 105 M(NM) w	M/NM	LiFePO4/C 6.4V 1500mAh	1 Hr	ST, AT, DATA, DATA2
M5 (C2, W2, S2, F2) 305 M(NM) w	M/NM	LiFePO4/C 6.4V 3000mAh	3 Hrs	ST, AT, DATA, DATA2
E1 301 M(NM) w	M/NM	LiFePO4/C 3.2V 1000mAh or 1500mAh	3 Hrs	ST, AT, DATA, DATA2
M2 (C1, W1, S1, F1) 02 CBw		Dependent on central battery system		1,2
M5 (C2, W2, S2, F2) 05 CBw		Dependent on central battery system		1,2
E1 01 CBw		Dependent on central battery system		1,2

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Effective Date: 2017-10-27

Expiry Date: 2020-10-26

Page: 39 of 49

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# ENEC Certificate

No. ENEC 652251

**Emergency Luminaires to EN 60598-1:2015 and EN 60598-2-22:2014.**

## **TM.PRIMO R range Emergency Luminaires continued**

Product	Emergency lighting luminaire with LED light source
Rated voltage	230 Vac - for self-contained 230 Vac; 216Vdc - for centrally supplied
Nature of supply	ac/dc
Rated frequency	50-60Hz; DC
Class	I
Degree of protection	IP 20
Ambient temperature range (ta):	+10°C to +35°C for self-contained luminaires -10°C to +40°C for centrally supplied luminaires CB2 version -15°C to +55°C for centrally supplied luminaires CB1 version

Product Self contained maintain/non-maintain and centrally supplied. Suitable for surface mounting and can be used as an evacuation light (E1 version).

Description  
TM.PRIMO R Xne Hpp A w

Legend:  
X: Models M or C,W,S,F  
M – is luminaire without optics  
C – is luminaire with Emerald-A  
W – is luminaire with Strada-FT  
S – is luminaire with Strada-SQ-VSM  
F – is luminaire with Flare-MINI  
E – is luminaire with evacuation sign

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Expiry Date: 2020-10-26

Page: 40 of 49

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# ENEC Certificate

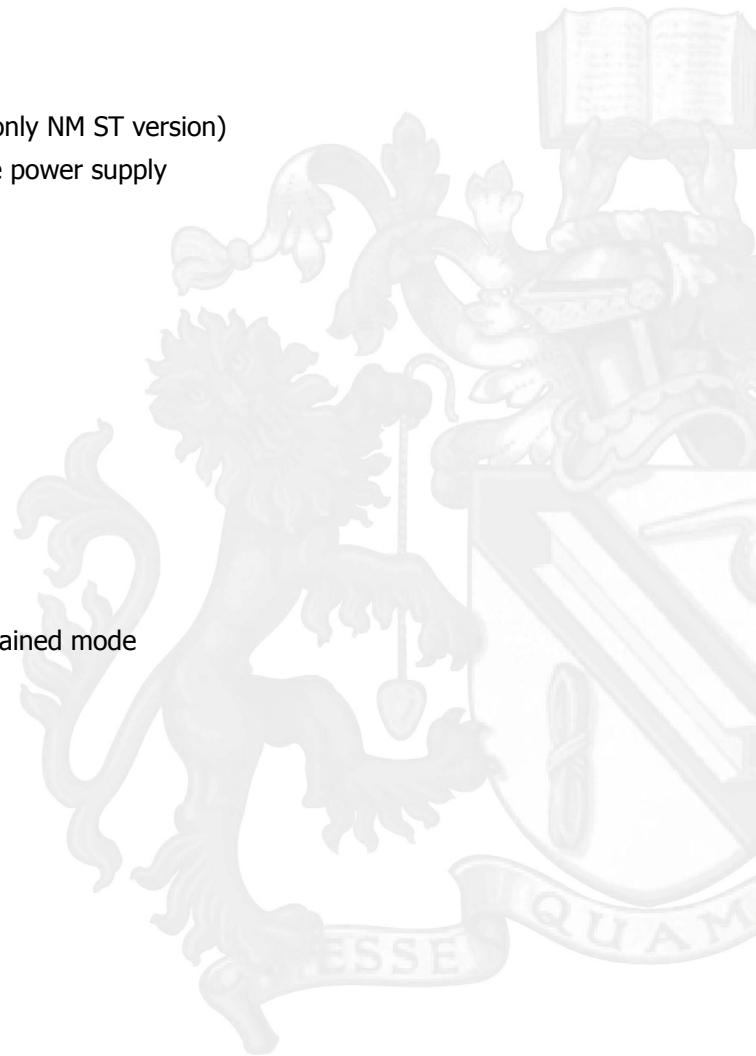
No. ENEC 652251

**Emergency Luminaires to EN 60598-1:2015 and EN 60598-2-22:2014.**

## **TM.PRIMO R range Emergency Luminaires continued**

Legend:

- n:                    1 – 1 LED for C,W,F,S or 8 LED for E  
                         2 – 2 LED for C,W,F,S or 1 LED for M  
                         5 – 2 LED for M
- e:                    U – control gear with AC transformer (only NM ST version)  
                         No marking – control gear with impulse power supply
- h:                    Duration time  
                         1 – 60 minutes / 3 - 180 minutes
- pp:                   LED power  
                         01 = 1W  
                         02 = 2W  
                         05 = 5W
- A:                    Mode  
                         M - maintained mode / NM - non maintained mode



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Latest Issue: 2017-10-27

Effective Date: 2017-10-27  
Expiry Date: 2020-10-26

Page: 41 of 49

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# ENEC Certificate

No. ENEC 652251

**Emergency Luminaires to EN 60598-1:2015 and EN 60598-2-22:2014.**

**TM.PRIMO R range Emergency Luminaires continued**

Legend :

w : Test type/application  
ST - manual test  
AT - individual automatic test  
DATA, DATA 2 - central automatic test  
CBw - for central battery system  
CB1 - without additional module  
CB2 - version with addressable module 010311 (TM-AM 02V)

(ST, AT, DATA, DATA 2, CB) - connect the appropriate module  
AT - PCB 010233 AT module  
DATA - PCB 010233 DATA module  
DATA 2 - PCB 010205A(B) DATA 2 module  
ST, CB - without additional module

LiFePO4/C - battery pack with integrated charge/discharge controller.

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Expiry Date: 2020-10-26

Page: 42 of 49

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# ENEC Certificate

No. ENEC 652251

**Emergency Luminaires to EN 60598-1:2015 and EN 60598-2-22:2014.**

## **TM.PRIMO S range Emergency Luminaires**

Test report number 8523181-5

<b>Model</b>	<b>Mode</b>	<b>Battery pack</b>	<b>Duration</b>	<b>Version</b>
E1A 101 NM	NM	Ni-Cd HT 3.6V 400mAh/800mAh	1 Hr	ST
E2A 101 NM	NM	Ni-Cd HT 3.6V 400mAh/800mAh	1 Hr	ST
E3(4)A 101 NM	NM	Ni-Cd HT 3.6V 400mAh/800mAh	1 Hr	ST
E5A 101 NM	NM	Ni-Cd HT 3.6V 400mAh/800mAh	1 Hr	ST
E6A 101 NM	NM	Ni-Cd HT 3.6V 800mAh	1 Hr	ST
E7A 102 NM	NM	Ni-Cd HT 3.6V 1500mAh	1 Hr	ST
E8A 104 NM	NM	Ni-Cd HT 3.6V 2500mAh	1 Hr	ST
E1A 301 NM	NM	Ni-Cd HT 3.6V 800mAh	3 Hrs	ST
E2A 301 NM	NM	Ni-Cd HT 3.6V 800mAh	3 Hrs	ST
E3(4)A 301 NM	NM	Ni-Cd HT 3.6V 800mAh	3 Hrs	ST
E5A 301 NM	NM	Ni-Cd HT 3.6V 1500mAh	3 Hrs	ST
E6A 301 NM	NM	Ni-Cd HT 3.6V 1500mAh	3 Hrs	ST
E7A 302 NM	NM	Ni-Cd HT 3.6V 2500mAh	3 Hrs	ST
E1U 101 NM	NM	LiFePO4/C 6.4V 570mAh	1 Hr	ST
E2U 101 NM	NM	LiFePO4/C 6.4V 570mAh	1 Hr	ST
E3(4)U 101 NM	NM	LiFePO4/C 6.4V 570mAh	1 Hr	ST
E5U 101 NM	NM	LiFePO4/C 6.4V 570mAh	1 Hr	ST
E6U 101 NM	NM	LiFePO4/C 6.4V 570mAh	1 Hr	ST

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Effective Date: 2017-10-27

Expiry Date: 2020-10-26

Page: 43 of 49

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# ENEC Certificate

No. ENEC 652251

**Emergency Luminaires to EN 60598-1:2015 and EN 60598-2-22:2014.**

**TM.PRIMO S range Emergency Luminaires continued**

Model	Mode	Battery pack	Duration	Version
E7U 102 NM	NM	LiFePO4/C 6.4V 570mAh	1 Hr	ST
E8U 103 NM	NM	LiFePO4/C 6.4V 1000mAh or 1500mAh	1 Hr	ST
E1U 301 NM	NM	LiFePO4/C 6.4V 570mAh or 1000mAh or 1500mAh	3 Hrs	ST
E2U 301 NM	NM	LiFePO4/C 6.4V 570mAh or 1000mAh or 1500mAh	3 Hrs	ST
E3(4)U 301 NM	NM	LiFePO4/C 6.4V 570mAh or 1000mAh or 1500mAh	3 Hrs	ST
E5U 301 NM	NM	LiFePO4/C 6.4V 570mAh or 1000mAh or 1500mAh	3 Hrs	ST
E6U 301 NM	NM	LiFePO4/C 6.4V 1000mAh or 1500mAh	3 Hrs	ST
E7U 302 NM	NM	LiFePO4/C 6.4V 1500mAh	3 Hrs	ST
E8U 303 NM	NM	LiFePO4/C 6.4V 3000mAh or 2000mAh	3 Hrs	ST
E1B 101 M(NM) w	M/NM	Ni-Cd HT 3.6V 400mAh/800mAh	1 Hr	ST, AT, DATA, DATA2
E2B 101 M(NM)w	M/NM	Ni-Cd HT 3.6V 400mAh/800mAh	1 Hr	ST, AT, DATA, DATA2
E3(4)B 101 M(NM)w	M/NM	Ni-Cd HT 3.6V 400mAh/800mAh	1 Hr	ST, AT, DATA, DATA2
E5B 101 M(NM)w	M/NM	Ni-Cd HT 3.6V 400mAh/800mAh	1 Hr	ST, AT, DATA, DATA2

First Issued: 2017-05-31

Latest Issue: 2017-10-27

Effective Date: 2017-10-27

Expiry Date: 2020-10-26

Page: 44 of 49

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# ENEC Certificate

No. ENEC 652251

**Emergency Luminaires to EN 60598-1:2015 and EN 60598-2-22:2014.**

**TM.PRIMO S range Emergency Luminaires continued**

Model	Mode	Battery pack	Duration	Version
E6B 101 M(NM) w	M/NM	Ni-Cd HT 3.6V 800mAh	1 Hr	ST, AT, DATA, DATA2
E7B 102 M(NM) w	M/NM	Ni-Cd HT 3.6V 1500mAh	1 Hr	ST, AT, DATA, DATA2
E8B 104 M(NM) w	M/NM	Ni-Cd HT 3.6V 2500mAh	1 Hr	ST, AT, DATA, DATA2
E1B 301 M(NM) w	M/NM	Ni-Cd HT 3.6V 800mAh	3 Hrs	ST, AT, DATA, DATA2
E2B 301 M(NM) w	M/NM	Ni-Cd HT 3.6V 800mAh	3 Hrs	ST, AT, DATA, DATA2
E3(4)B 301 M(NM) w	M/NM	Ni-Cd HT 3.6V 800mAh	3 Hrs	ST, AT, DATA, DATA2
E5B 301 M(NM) w	M/NM	Ni-Cd HT 3.6V 1500mAh	3 Hrs	ST, AT, DATA, DATA2
E6B 301 M(NM) w	M/NM	Ni-Cd HT 3.6V 1500mAh	3 Hrs	ST, AT, DATA, DATA2
E7B 302 M(NM) w	M/NM	Ni-Cd HT 3.6V 2500mAh	3 Hrs	ST, AT, DATA, DATA2
E8B 304 M(NM) w	M/NM	Ni-Cd HT 3.6V 4000mAh	3 Hrs	ST, AT, DATA, DATA2
E1E 101 M(NM) w	M/NM	LiFePO4/C 6.4V 570mAh	1 Hr	ST, AT, DATA, DATA2
E2E 101 M(NM) w	M/NM	LiFePO4/C 6.4V 570mAh	1 Hr	ST, AT, DATA, DATA2
E3(4)E 101 M(NM) w	M/NM	LiFePO4/C 6.4V 570mAh	1 Hr	ST, AT, DATA, DATA2
E5E 101 M(NM) w	M/NM	LiFePO4/C 6.4V 570mAh	1 Hr	ST, AT, DATA, DATA2
E6E 101 M(NM) w	M/NM	LiFePO4/C 6.4V 570mAh	1 Hr	ST, AT, DATA, DATA2
E7E 102 M(NM)	M/NM	LiFePO4/C 6.4V 570mAh	1 Hr	ST, AT, DATA, DATA2
E8E 103 M(NM) w	M/NM	LiFePO4/C 6.4V 1000mAh or 1500mAh	1 Hr	ST, AT, DATA, DATA2

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Effective Date: 2017-10-27

Expiry Date: 2020-10-26

Page: 45 of 49

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# ENEC Certificate

No. ENEC 652251

**Emergency Luminaires to EN 60598-1:2015 and EN 60598-2-22:2014.**

**TM.PRIMO S range Emergency Luminaires continued**

Model	Mode	Battery pack	Duration	Version
E1E 301 M(NM) w	M/NM	LiFePO4/C 6.4V 570mAh or 1000mAh or 1500mAh	3 Hrs	ST, AT, DATA, DATA2
E2E 301 M(NM) w	M/NM	LiFePO4/C 6.4V 570mAh or 1000mAh or 1500mAh	3 Hrs	ST, AT, DATA, DATA2
E3(4)E 301 M(NM) w	M/NM	LiFePO4/C 6.4V 570mAh or 1000mAh or 1500mAh	3 Hrs	ST, AT, DATA, DATA2
E5E 301 M(NM) w	M/NM	LiFePO4/C 6.4V 570mAh or 1000mAh or 1500mAh	3 Hrs	ST, AT, DATA, DATA2
E6E 301 M(NM) w	M/NM	LiFePO4/C 6.4V 1000mAh or 1500mAh	3 Hrs	ST, AT, DATA, DATA2
E7E 302 M(NM) w	M/NM	LiFePO4/C 6.4V 1500mAh	3 Hrs	ST, AT, DATA, DATA2
E8E 303 M(NM) w	M/NM	LiFePO4/C 6.4V 3000mAh or 2000mAh	3 Hrs	ST, AT, DATA, DATA2
E1P 101 M(NM) w	M/NM	LiFePO4/C 6.4V 570mAh	1 Hr	ST, AT, DATA, DATA2
E2P 101 M(NM) w	M/NM	LiFePO4/C 6.4V 570mAh	1 Hr	ST, AT, DATA, DATA2
E3(4)P 101 M(NM) w	M/NM	LiFePO4/C 6.4V 570mAh	1 Hr	ST, AT, DATA, DATA2
E5P 102 M(NM) w	M/NM	LiFePO4/C 6.4V 570mAh	1 Hr	ST, AT, DATA, DATA2
E6P 102 M(NM) w	M/NM	LiFePO4/C 6.4V 570mAh	1 Hr	ST, AT, DATA, DATA2
E7P 105 M(NM) w	M/NM	LiFePO4/C 6.4V 1500mAh	1 Hr	ST, AT, DATA, DATA2
E8P 108 M(NM) w	M/NM	LiFePO4/C 6.4V 3000mAh or 2000mAh	1 Hr	ST, AT, DATA, DATA2
E1P 301 M(NM) w	M/NM	LiFePO4/C 6.4V 570mAh	3 Hrs	ST, AT, DATA, DATA2
E2P 301 M(NM) w	M/NM	LiFePO4/C 6.4V 570mAh	3 Hrs	ST, AT, DATA, DATA2
E3(4)P 301 M(NM) w	M/NM	LiFePO4/C 6.4V 1000mAh or 1500mAh	3 Hrs	ST, AT, DATA, DATA2
E5P 302 M(NM) w	M/NM	LiFePO4/C 6.4V 1500mAh	3 Hrs	ST, AT, DATA, DATA2

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Latest Issue: 2017-10-27

Effective Date: 2017-10-27

Expiry Date: 2020-10-26

Page: 46 of 49

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# ENEC Certificate

No. ENEC 652251

**Emergency Luminaires to EN 60598-1:2015 and EN 60598-2-22:2014.**

**TM.PRIMO S range Emergency Luminaires continued**

Test report number 8523181-5

Model	Mode	Battery pack	Duration	Version
E6P 302 M(NM) w	M/NM	LiFePO4/C 6.4V 1500mAh	3 Hrs	ST, AT, DATA, DATA2
E7P 305 M(NM) w	M/NM	LiFePO4/C 6.4V 4500mAh	3 Hrs	ST, AT, DATA, DATA2
E8P 308 M(NM) w	M/NM	LiFePO4/C 6.4V 6000mAh	3 Hrs	ST, AT, DATA, DATA2
E1E 01 CBm		Dependent on central battery system		1,2
E2E 01 CBm		Dependent on central battery system		1,2
E3(4)E 01 CBm		Dependent on central battery system		1,2
E5E 01 CBm		Dependent on central battery system		1,2
E6E 01 CBm		Dependent on central battery system		1,2
E7E 02 CBm		Dependent on central battery system		1,2
E8E 03 CBm		Dependent on central battery system		1,2
E1P 01 CBm		Dependent on central battery system		1,2
E2P 01 CBm		Dependent on central battery system		1,2
E3(4)P 01 CBm		Dependent on central battery system		1,2
E5P 02 CBm		Dependent on central battery system		1,2
E6P 02 CBm		Dependent on central battery system		1,2
E7P 05 CBm		Dependent on central battery system		1,2
E8P 08 CBm		Dependent on central battery system		1,2

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Latest Issue: 2017-10-27

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Expiry Date: 2020-10-26

Page: 47 of 49

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# ENEC Certificate

No. ENEC 652251

**Emergency Luminaires to EN 60598-1:2015 and EN 60598-2-22:2014.**

## **TM.PRIMO S range Emergency Luminaires continued**

Product	Emergency evacuation lighting luminaire with LED light source
Rated voltage	230 Vac - for self-contained 230Vac; 216Vdc - for centrally supplied
Nature of supply	ac/dc
Rated frequency	50-60Hz; DC
Class	I
Degree of protection	IP 20
Ambient temperature range (ta):	+10°C to +35°C for self-contained luminaires -10°C to +40°C for centrally supplied luminaires CB2 version -15°C to +55°C for centrally supplied luminaires CB1 version
Product	Self contained maintain/non-maintain and centrally supplied. Suitable for surface mounting and also can be used as one side evacuation light.

Description  
TM.PRIMO S Ere Hpp A w

Legend:  
r:  
1 – pictogram dimension 100 x 200[mm]  
2 – pictogram dimension 125 x 250[mm]  
3 – pictogram dimension 150 x 300[mm]  
4 – pictogram dimension 158 x 306[mm]  
5 – pictogram dimension 170 x 340[mm]  
6 – pictogram dimension 200 x 400[mm]  
7 – pictogram dimension 350 x 700[mm]  
8 – pictogram dimension 440 x 880[mm]

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Effective Date: 2017-10-27  
Expiry Date: 2020-10-26

Page: 48 of 49

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# ENEC Certificate

No. ENEC 652251

**Emergency Luminaires to EN 60598-1:2015 and EN 60598-2-22:2014.**

## **TM.PRIMO S range Emergency Luminaires continued**

e: U,A – controlgear with AC transformer (only NM ST version luminance <500 cd/m<sup>2</sup>)  
E,B – controlgear with impulse power supply (luminance <500 cd/m<sup>2</sup>)  
P – controlgear with impulse power supply (average luminance >500 cd/m<sup>2</sup>)

H: Duration time  
1 – 60 minutes / 3 – 180 minutes

pp: LED power  
01 = 1W, 02 = 2W, 03 = 3W, 04 = 4W, 05=5W, 08=8W

A: Mode  
M - maintained mode / NM - non maintained mode

W: Test type/application  
ST - manual test  
AT - individual automatic test  
DATA, DATA 2 - central automatic test  
CBw - for central battery system  
CB1 - without additional module  
CB2 - version with addressable module 010311 (TM-AM 02V)

(ST, AT, DATA, DATA 2, CB) - connect the appropriate module

AT - PCB 010233 AT module  
DATA - PCB 010233 DATA module  
DATA 2 - PCB 010205A(B) DATA 2 module  
ST, CB - without additional module

LiFePO<sub>4</sub>/C - battery pack with integrated charge/discharge controller.

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Page: 49 of 49

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