

CERTIFICATE

Issued to:
Applicant:
TM Technologie sp. z.o.o.
Morawica 355
32-084 Morawica, Poland

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

Product : Emergency luminaires with LED light source
Trade name(s) : TM TECHNOLOGIE
Type(s)/model(s) : ONTEC S Xnm Hv AA TT (CLD)

The product and any acceptable variation thereto is specified in the Annex to this certificate and the documents therein referred to.

DEKRA hereby declares that the above-mentioned product has been certified on the basis of:

- a type test according to the standard EN 60598-1:2015, EN 60598-1:2015/AC:2015, EN 60598-1:2015/AC:2016, EN 60598-1:2015/A1:2018, EN 60598-2-22:2014, EN 60598-2-22:2014/AC:2015, EN 60598-2-22:2014/AC:2016-05 and EN 60598-2-22:2014/AC:2016-09
- an inspection of the production location according to CENELEC Operational Document CIG 021
- a certification agreement with the number 2173187

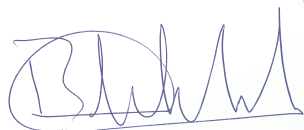
DEKRA hereby grants the right to use the ENEC certification mark.

The ENEC certification mark may be applied to the product as specified in this certificate for the duration of the ENEC certification agreement and under the conditions of the ENEC certification agreement.

This certificate is issued on 16 April 2019 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 71-108128

DEKRA Certification B.V.



B.T.M. Holtus
Managing Director



H.R.M. Barends
Certification Manager

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SPECIFICATION OF THE CERTIFIED PRODUCT**Product data**

Product	: Emergency luminaires with LED light source
Trade name(s)	: TM TECHNOLOGIE
Type(s)/model(s)	: ONTEC S Xnm Hvv AA TT (CLD)
Rated voltage/nature of supply	: 210 - 250 Vac - for self-contained 210 - 250 Vac; 186 - 254 Vdc - for centrally supplied
Rated frequency	: 50-60 Hz - for self-contained 50-60 Hz; DC - for centrally supplied
Classification	: Class II
Degree of protection against ingress of solid objects, dust and/or moisture	: IP44/IP65
Ambient temperature range	: ta: +10 to +40 °C - for self-contained (without COLD indication) ta: -15 to +40 °C - for self-contained (indicated with COLD) ta: -15 to +55 °C - for models with CB1, CB3 ta: -10 to +40 °C - for models with CB7
Description	: Emergency luminaires which are suitable for recessed mount as surface mount

TESTS**Test requirements**

EN 60598-1:2015
EN 60598-1:2015/AC:2015
EN 60598-1:2015/AC:2016
EN 60598-1:2015/A1:2018
EN 60598-2-22:2014
EN 60598-2-22:2014/AC:2015
EN 60598-2-22:2014/AC:2016-05
EN 60598-2-22:2014/AC:2016-09

Test result

The test results are laid down in DEKRA test file 223622600.

Additional information

These emergency luminaires contain LED modules which are in compliance with EN 62031:2008 + A1:2013 + A2:2015 (tested as part of the appliance).

These luminaires contain LED drivers which are in compliance with IEC 61347-2-13:2014 + A1:2016 and IEC 61347-2-7:2012 used in conjunction with IEC 61347-1:2015 + A1:2017 (CB certified). The specified IEC standards are representative for EN 61347-2-13:2014 + A1:2017, EN 61347-2-7:2012 and EN 61347-1:2015.

This certificate replaces certificate No. 71-105482 which we herewith declare invalid.

The list of components is laid down at test report 2236226.51.

Conclusion

The examination proved that all requirements were met.

Factory location

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

Product key:**ONTEC S Xnm Hvv AA TT (CLD)**

Example: ONTEC S M1U 301 NM ST, ONTEC S M1 01 CB1, ONTEC S M5 205 M DATA 2 COLD, ONTEC S E1P 301 MAT

X :	Model M, C , W, F or E M is luminaire without optics C is luminaire with Emerald-A optic W is luminaire with Strada-FT optic F is luminaire with Flare-MINI optic E is one side evacuation luminaire
n :	1 is 1 LED for C,W,F or 7 LED for M or 14 LED for E 2 is 2 LED for C,W,F or 14 LED for M 3 is 21 LED for M 5 is 2 LED for M
m:	U – model with 010297 control gear (only NM version) P – evacuation version with pictogram, luminance > 200 cd/m ² empty for other models
H:	1 is 1 hour 2 is 2 hours 3 is 3 hours empty is for CB
vv:	01 = 1W LED 02 = 2W LED 03 = 3W LED 05 = 5W LED
AA:	M Maintained mode NM Non maintained mode empty is for CB
TT:	ST – manual test AT – individual automatic test DATA, DATA 2 – central automatic test CB1 – for central battery system CB3, CB7 – for central battery with addressable module
CLD:	COLD – -15 to +40 Celsius degrees (for self-contained only)

Additional plexi with gradient mounted as an accessory for all luminaires M1, M2, M3, M5 and C, F.
Recessed mount kit as an accessory for all luminaires M1, M1U, M2, M3, M5, E1 and C, W, F.

IP44 models (cover without seal, cable entry).

IP65 models (cover with additional seal, special IP65/67 gasket).

N – Surface mounted fitting.
P – Recessed fitting (marked in label).

Ambient temperature range:

+10 to +40 Celsius degrees for all self-contained (without COLD)

-15 to +55 Celsius degrees for models with CB1, CB3

-10 to +40 Celsius degrees for models with CB7

LiFEPO4/C – battery pack with integrated charge/discharge controller.

Models overview:

ONTEC S

v051018

Model		VIP-RS BOM code					Battery	LED module	
		ST	AT	DATA	DATA 2	CB			
M1	101 M	01ST-MXPVX	01AD-MXPVX	01AD-MXPVX	01D2-MXPVX	-	Ni-CD, Ni-MH 3.6 V 1.5 Ah	7 LED (7 x 1) Duris E5 (90/45 mA) PCB 010177A / V1	
	101 NM	01ST-NXXVX	01AD-NXXVX	01AD-NXXVX	01D2-NXXVX	-			
	301 M	01ST-MXPVX	01AD-MXPVX	01AD-MXPVX	01D2-MXPVX	-			
	301 NM	01ST-NXXVX	01AD-NXXVX	01AD-NXXVX	01D2-NXXVX	-			
	01 CB1	-	-	-	-	16CB-XXXXX			-
	01 CB3 + MU05	-	-	-	-	16CB-XXXXX			-
	01 CB7	-	-	-	-	02CB-XXXXX-T			-
M1U	101 NM ST	010297 03ST-N1X0X	-	-	-	-	Ni-CD 3.6V 0.8 Ah	7 LED (7 x 1) Duris E5 (45 mA) PCB 010177A / V1	
	301 NM ST	010297 03ST-N3XVX	-	-	-	-	Ni-CD 3.6V 1.5 Ah		
M2	102 M	02ST-M1NVX	02AD-M1NVX	02AD-M1NVX	02D2-M1NVX	-	Ni-CD, Ni-MH 3.6 V 1.5 Ah	14 LED (14 x 1) Duris E5 (45/45 mA) PCB 010177A / V2	
	102 NM	01ST-NXXVX	01AD-NXXVX	01AD-NXXVX	01D2-NXXVX	-			
	302 M	04ST-M3NVX	04AD-M3NVX	04AD-M3NVX	04D2-M3NVX	-	Ni-CD, Ni-MH 3.6 V 2.5 Ah	14 LED (14 x 1) Duris E5 (45/45 mA) PCB 010177A / V2	
	302 NM	04ST-N3XVX	04AD-N3XVX	04AD-N3XVX	04D2-N3XVX	-			
	102 M ST, AT COLD	13ST-MXNVX	13AD-MXNVX	-	-	-	LiFePO4/C 6.4 V 1.5 Ah (cable lenght 230 mm)	14 LED (7 x 2) Duris E5 (45/45 mA) PCB 010177A / V3	
	102 NM ST, AT COLD	13ST-NXXVX	13AD-NXXVX	-	-	-			
	102 M DATA, DATA 2 COLD	-	-	15AD-MXNVX	15D2-MXNVX	-	LiFePO4/C 6.4 V 4.5 Ah (cable lenght 230 mm)	14 LED (14 x 1) Duris E5 (45/45 mA) PCB 010177A / V2	
	102 NM DATA, DATA 2 COLD	-	-	15AD-NXXVX	15D2-NXXVX	-			
	302 M ST, AT COLD	13ST-MXNVX	13AD-MXNVX	-	-	-	LiFePO4/C 6.4 V 4.5 Ah (cable lenght 230 mm)	14 LED (7 x 2) Duris E5 (45/45 mA) PCB 010177A / V3	
	302 NM ST, AT COLD	13ST-NXXVX	13AD-NXXVX	-	-	-			
	302 M DATA, DATA 2 COLD	-	-	15AD-MXNVX	15D2-MXNVX	-	LiFePO4/C 6.4 V 4.5 Ah (cable lenght 230 mm)	14 LED (14 x 1) Duris E5 (45/45 mA) PCB 010177A / V2	
	302 NM DATA, DATA 2 COLD	-	-	15AD-NXXVX	15D2-NXXVX	-			
	02 CB1	-	-	-	-	17CB-XXXXX	-	14 LED (14 x 1) Duris E5 (45 mA) PCB 010177A / V2	
	02 CB3 + MU05	-	-	-	-	17CB-XXXXX	-		
	02 CB7	-	-	-	-	02CB-XXXXX-T	-		
M3	103 NM	04ST-NXXVX	04AD-NXXVX	04AD-NXXVX	04D2-NXXVX	-	Ni-CD, Ni-MH 3.6 V 2.5 Ah	21 LED (21 x 1) Duris E5 (45 mA) PCB 010177A / V5	
	303 NM	06ST-N3XVX	06AD-N3XVX	06AD-N3XVX	06D2-N3XVX	-	Ni-MH 3.6 V 4.5 Ah		
E1P	101 M	03ST-MXNVX	03AD-MXNVX	03AD-MXNVX	03D2-MXNVX	-	Ni-CD, Ni-MH 3.6 V 1.5 Ah	14 LED (14 x 1) Duris E5 (21 mA) PCB 010209 / V1A	
	101 NM	03ST-NXXVX	03AD-NXXVX	03AD-NXXVX	03D2-NXXVX	-			
	301 M	03ST-MXNVX	03AD-MXNVX	03AD-MXNVX	03D2-MXNVX	-			
	301 NM	03ST-NXXVX	03AD-NXXVX	03AD-NXXVX	03D2-NXXVX	-			
	101 M COLD	15ST-MXNV3	15AD-MXNV3	15AD-MXNV3	15D2-MXNV3	-	LiFePO4/C 6.4 V 1.5 Ah (cable lenght 230 mm)		
	101 NM COLD	15ST-NXXV3	15AD-NXXV3	15AD-NXXV3	15D2-NXXV3	-			
	301 M COLD	15ST-MXNV3	15AD-MXNV3	15AD-MXNV3	15D2-MXNV3	-	LiFePO4/C 6.4 V 3.0 Ah		
	301 NM COLD	15ST-NXXV3	15AD-NXXV3	15AD-NXXV3	15D2-NXXV3	-			
	01 CB1	-	-	-	-	18CB-XXXXX	-		
	01 CB3 + MU05	-	-	-	-	18CB-XXXXX	-		
	01 CB7	-	-	-	-	03CB-XXXXX-T	-		

Model		VIP-R5 BOM code					Battery	LED module
		ST	AT	DATA	DATA 2	CB		
M5	105 M	14ST-MXEVX	14AD-MXEVX	14AD-MXEVX	14D2-MXEVX	-	LiFePO4/C 6.4 V 1.5 Ah (cable lenght 230 mm)	2 LED (1 x 2) Luxeon T/TX (0.66A) or OSLON Square (0.66A) PCB 010179C / V2
	105 NM	14ST-NXXVX	14AD-NXXVX	14AD-NXXVX	14D2-NXXVX	-		
	305 M	14ST-MXEVX	14AD-MXEVX	14AD-MXEVX	14D2-MXEVX	-	LiFePO4/C 6.4 V 3.0 Ah	
	305 NM	14ST-NXXVX	14AD-NXXVX	14AD-NXXVX	14D2-NXXVX	-		
	105 M COLD	15ST-MXEVX	15AD-MXEVX	15AD-MXEVX	15D2-MXEVX	-		
	105 NM COLD	15ST-NXXVX	15AD-NXXVX	15AD-NXXVX	15D2-NXXVX	-		
	205 M COLD	15ST-MXEVX	15AD-MXEVX	15AD-MXEVX	15D2-MXEVX	-	LiFePO4/C 6.4 V 4.5 Ah	
	205 NM COLD	15ST-NXXVX	15AD-NXXVX	15AD-NXXVX	15D2-NXXVX	-		
	05 CB1	-	-	-	-	19CB-XXXXX	-	
	05 CB3 + MU05	-	-	-	-	19CB-XXXXX	-	
	05 CB7	-	-	-	-	04CB-XXXX6-T	-	
C1, W1, F1	302 M	14ST-MXNVX	14AD-MXNVX	14AD-MXNVX	14D2-MXNVX	-	LiFePO4/C 6.4 V 1.5 Ah (cable lenght 230 mm)	1 LED Luxeon T/TX (0.66A) or OSLON Square (0.66A) PCB 010179C / V1
	302 NM	14ST-NXXVX	14AD-NXXVX	14AD-NXXVX	14D2-NXXVX	-		
	102 M COLD	15ST-MXNVX	15AD-MXNVX	15AD-MXNVX	15D2-MXNVX	-		
	102 NM COLD	15ST-NXXVX	15AD-NXXVX	15AD-NXXVX	15D2-NXXVX	-		
	302 M COLD	15ST-MXNVX	15AD-MXNVX	15AD-MXNVX	15D2-MXNVX	-	LiFePO4/C 6.4 V 3.0 Ah	
	302 NM COLD	15ST-NXXVX	15AD-NXXVX	15AD-NXXVX	15D2-NXXVX	-		
	02 CB1	-	-	-	-	19CB-MXXXX	-	
	02 CB3 + MU05	-	-	-	-	19CB-MXXXX	-	
	02 CB7	-	-	-	-	04CB-XXXX6-T	-	
C2, W2, F2	105 M	14ST-MXEVX	14AD-MXEVX	14AD-MXEVX	14D2-MXEVX	-	LiFePO4/C 6.4 V 1.5 Ah (cable lenght - 230mm)	2 LED (1 x 2) Luxeon T/TX (0.66A) or OSLON Square (0.66A) PCB 010179C / V2
	105 NM	14ST-NXXVX	14AD-NXXVX	14AD-NXXVX	14D2-NXXVX	-		
	305 M	14ST-MXEVX	14AD-MXEVX	14AD-MXEVX	14D2-MXEVX	-	LiFePO4/C 6.4 V 3.0 Ah	
	305 NM	14ST-NXXVX	14AD-NXXVX	14AD-NXXVX	14D2-NXXVX	-		
	105 M COLD	15ST-MXEVX	15AD-MXEVX	15AD-MXEVX	15D2-MXEVX	-		
	105 NM COLD	15ST-NXXVX	15AD-NXXVX	15AD-NXXVX	15D2-NXXVX	-		
	205 M COLD	15ST-MXEVX	15AD-MXEVX	15AD-MXEVX	15D2-MXEVX	-	LiFePO4/C 6.4 V 4.5 Ah	
	205 NM COLD	15ST-NXXVX	15AD-NXXVX	15AD-NXXVX	15D2-NXXVX	-		
	05 CB1	-	-	-	-	19CB-XXXXX	-	
	05 CB3 + MU05	-	-	-	-	19CB-XXXXX	-	
	05 CB7	-	-	-	-	04CB-XXXX6-T	-	