

# CERTIFICATE

Issued to:  
Applicant:  
**TM Technologie Sp. z.o.o**  
**Morawica 355**  
**32-084 Morawica**  
**Poland**

Manufacturer/Licensee:  
**TM Technologie Sp. z.o.o**  
**Morawica 355**  
**32-084 Morawica**  
**Poland**

Product : Emergency luminaires with LEDs  
Trade name : TM TECHNOLOGIE  
Type/model : ONTEC S Xnm Hvv A/BB

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 60598-1:2008;EN 60598-2-22:1998
- 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 KEMA-KEUR certification mark.

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

This certificate is issued on: 30 October 2014 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 2173203.01

DEKRA Certification B.V.



drs. G.J. Zoetbrood  
Managing Director



P.W. Huige  
Certification Manager

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ACCREDITED BY THE  
DUTCH ACCREDITATION  
COUNCIL



**SPECIFICATION OF THE CERTIFIED PRODUCT****Product data**

product	:	Emergency luminaires with LEDs
trade name	:	TM TECHNOLOGIE
type	:	ONTEC S Xnm Hvv A/BB
rated voltage	:	230 V
nature of supply	:	ac
rated frequency	:	50 Hz
class	:	II
ambient temperature (ta)	:	+10 °C.....+40 °C
degree of protection	:	IP65
description	:	Selfcontained emergency luminaire

**Explanation of type reference key:**

ONTEC S Xnm Hvv A/BB

X :	Model M or C ,W,F or E M = luminaire without optics C = luminaire with Emerald-A optic W = luminaire with Strada-FT optic F = luminaire with Flare-MINI optic E = one side evacuation luminaire
n :	1 = 1 LED for C,W,F or 7 LED for M or 14 LED for E 2 = 2 LED for C,W,F or 14 LED for M 3 = 21 LED for M 5 = 2 LED for M
m:	N = surface mounted fitting M = recessed fitting
H:	1 = 1 hour 2 = 2 hours 3 = 3 hours
vv:	01 = 1W LED 02 = 2W LED 03 = 3W LED 05 = 5W LED
A/:	M = Maintained mode NM = Non maintained mode

BB:

ST = manual test

AT = individual automatic test

COLD = -15 to +40 Celsius degrees

DATA = central automatic test

CB = for central battery system -15 to +55 Celsius degrees

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, M2, M3, M5, E1 and C, W, F.

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

## TESTS

### Test requirements

EN 60598-1:2008 + A11:2009

EN 60598-2-22:1998 + A1:2003 + A2:2008

### Test result

The test results are laid down in DEKRA test file 2173203.00.

### Conclusion

The examination proved that all test requirements were met.

Tested by : J.G.H. Gelink



Checked by : T.H.J.M. Michels



### Factory location

TM Technologie Sp. z.o.o

Morawica 355

32-084 Morawica

Poland

**List of components**

Component	trade name	type/model	approval mark <sup>1)</sup>
Battery	Heter electronics	HTCF18650, 1500mAh, 6,4V, 1.5Ah, 3.0Ah, 4.5Ah	*
Battery	Crown great limited	3xSc KRMT 23/43 3.6V1.5Ah	*
Battery	Crown great limited	3xC KRMT 26/50 3.6V2.5Ah	*
Battery	Crown Great Limited	3xAA KRMT 15/49 3.6V 1.5Ah	*
Battery	Crown Great Limited	3xSc KRMT 23/43 3.6V 2.5Ah	*
Battery	Crown Great Limited	3x18700 KRMT 19/70 3.6V 4.0Ah	*
Input terminal	Degson	DG245-5.0-2P, DG245-5.0-3P 250V, 15A	VDE
Gland	KAI SUH SUH	PG 11 IP68	*
Print connector	Maritex	WS05SDH	*/UL
LED	Osram	Duris E5, 3.2V 120mA	*
LED	Philips	Luxeon TX, 3V, 1.5A	*
LED PCB	TM technologie	010177A	*

<sup>1)</sup> \* indicates a component tested as part of the appliance