



LAMP CONCEPT  
LIGHTING

 TM TECHNOLOGIE



emergency lighting

# 20 years of experience

The actual offer may slightly differ from presented in the catalogue.  
This publication is not an offer under the Article of the Civil Code.



### Highest quality!

The products have even more certificates that confirm the quality of the product, so when you choose TM TECHNOLOGIE, you get a guarantee of safety.



### More design.

With thought about trends, new, original color versions of the ONTEC series and the exclusive series of PRIMO luminaires were created.



### For the environment.

TM TECHNOLOGIE offers the LiFePO<sub>4</sub> battery as a standard because you, your surroundings and the environment are of the highest importance. LiFePO<sub>4</sub> batteries do not contain harmful substances. In comparison to Nickel-Cadmium (Ni-Cd) batteries, LiFePO<sub>4</sub> batteries have three times as many work cycles, while in comparison to nickel metal hydride batteries (Ni-MH) up to five times more work cycles! That translates to an average lifespan of LiFePO<sub>4</sub> battery at 6-8 years. LiFePO<sub>4</sub> batteries are not subject to the memory effect, i.e. there is no need for performing the standard three battery charge/discharge cycles.



### Endless possibilities!

We have two groups of systems. The central battery system which apart from monitoring the operation of the system components, supplies the luminaires with power from one place. The second system, DATA 2 self-contained addressable monitoring system. DATA 2 is also available in wireless communication!



### Greater potential.

We appreciate the creativity of architects and would like support lighting designers, this is why the range of accessories was expanded to find the right solution for emergency lighting regardless of the space.





By producing millions of emergency lighting fittings, we have illuminated thousands of buildings and fulfill contracts both here and around the world – all this for your safety. With passion and commitment, we create trends in the field of backup lighting. At every single step of the process we offer professional and complete product support.

Aesthetics, ergonomics and functionality – these have been our priorities while developing our products. Being conscious of the immense importance of the reliability of our line of products, we ensure that every single element is manufactured with perfect attention to detail. This is to ensure that we meet the requirements of our clients, invest in constant growth, and ensure the safety of our contracts and the highest quality of our products.





## DESIGNER, ELEGANT SPACES

realization with the use of ONTEC R luminaire





## COLOURFUL SCHOOLS & KINDERGARTENS

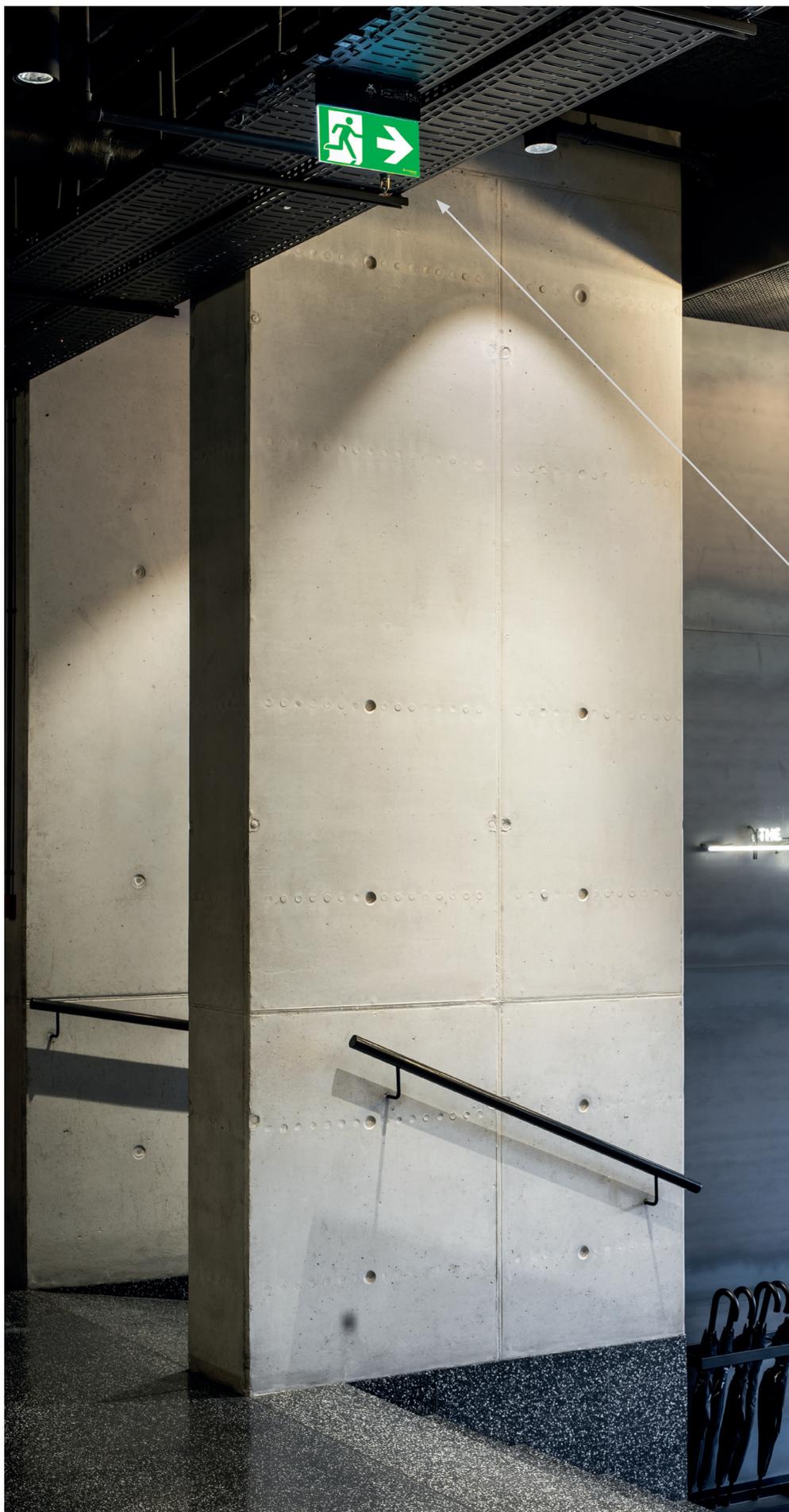
escape route lighting with use ONTEC R





# SPORTS FACILITIES

evacuation direction with ONTEC S





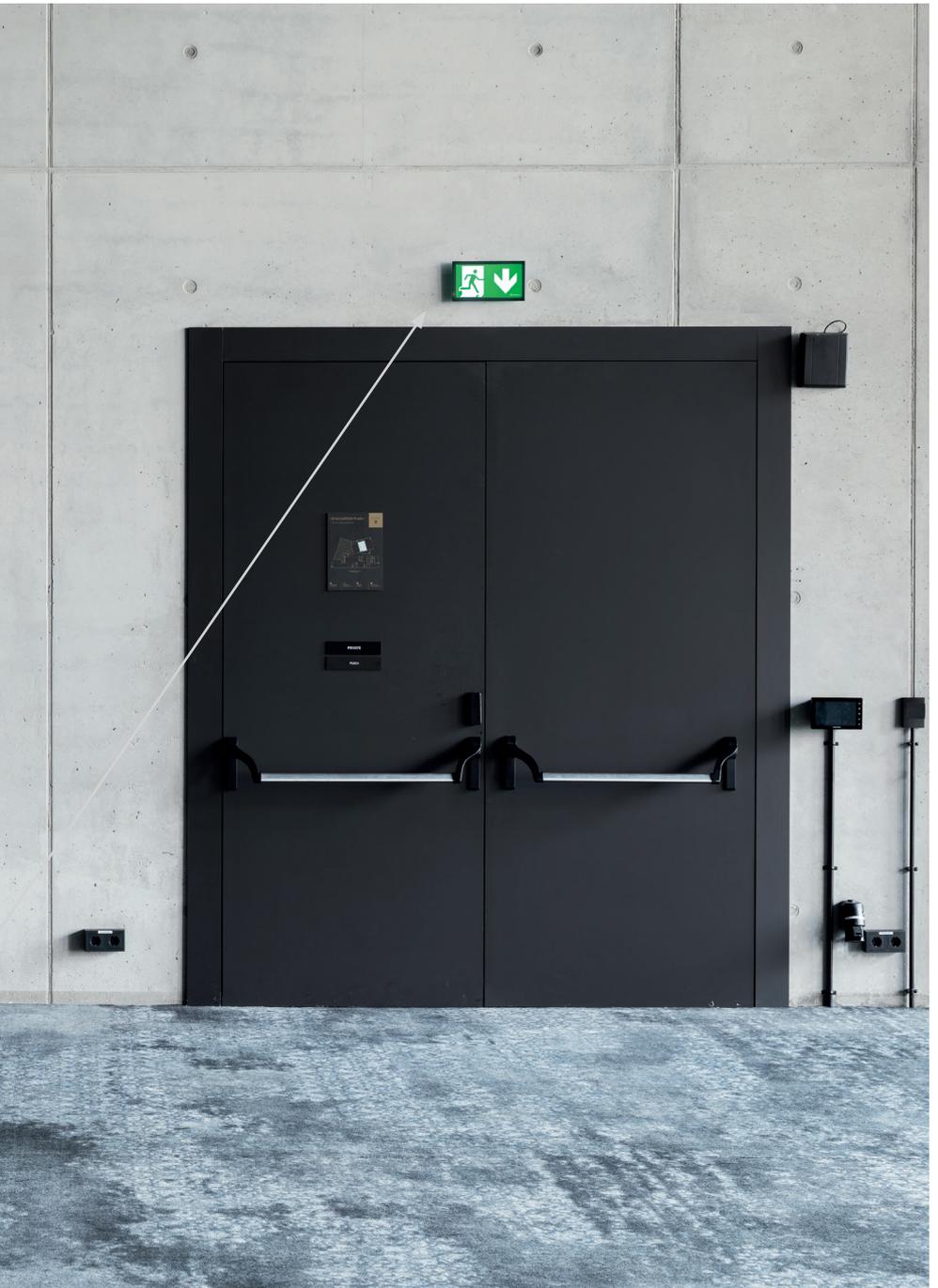
## QUAINT HOTELS

evacuation direction with ONTEC G



# INDUSTRIAL INTERIORS

evacuation direction with ONTEC E



secure offices



# ONTEC

series of plastic material



Material	PC
Insulation class	II
IP	<ul style="list-style-type: none"> <li>» IP20</li> <li>» IP44</li> <li>» IP65</li> <li>» IP67</li> </ul>
IK	<ul style="list-style-type: none"> <li>» IK03</li> <li>» IK05</li> <li>» IK06</li> <li>» IK08</li> </ul>
Test version	<ul style="list-style-type: none"> <li>» ST - for button test</li> <li>» AT - auto-test / self-test</li> <li>» DATA 2 - with addressable module for DATA 2 system</li> <li>» DALI - with addressable module for DALI systems</li> <li>» CB - without addressable module</li> <li>» CBA - with addressable module</li> </ul>
Duration time	<ul style="list-style-type: none"> <li>» 1 h / 60 min</li> <li>» 3 h / 180 min</li> </ul>
Colour	<ul style="list-style-type: none"> <li>»  Yellow RAL 1016</li> <li>»  Red RAL 3020</li> <li>»  Pink RAL 4010</li> <li>»  Blue RAL 5015</li> <li>»  Green RAL 6018</li> <li>»  White RAL 9003</li> <li>»  Grey RAL 7035</li> <li>»  Black RAL 9005</li> </ul>
Battery	<p>LiFePO4 </p> <p>TM TECHNOLOGIE offers the LiFePO4 battery as a standard because you, your surroundings and the environment are of the highest importance.</p> <p>In comparison to Nickel-Cadmium (Ni-Cd) batteries, LiFePO4 batteries have three times as many work cycles, while in comparison to nickel metal hydride batteries (Ni-MH) up to five times more work cycles! That translates to an average lifespan of LiFePO4 battery at 6-8 years.</p> <p>LiFePO4 batteries are not subject to the memory effect, i.e. there is no need for performing the standard three battery charge/discharge cycles.</p>
Operating mode	<ul style="list-style-type: none"> <li>» NM - non maintained</li> <li>» M - maintained</li> </ul>
Warranty	up to 5 years!

ONTEC S20  
ONTEC S (25)  
ONTEC S30

universal luminaires, IP65/IP67

evacuation route direction (evacuation sign)

anti-panic lighting, escape route lighting



20 m



25 m



30 m

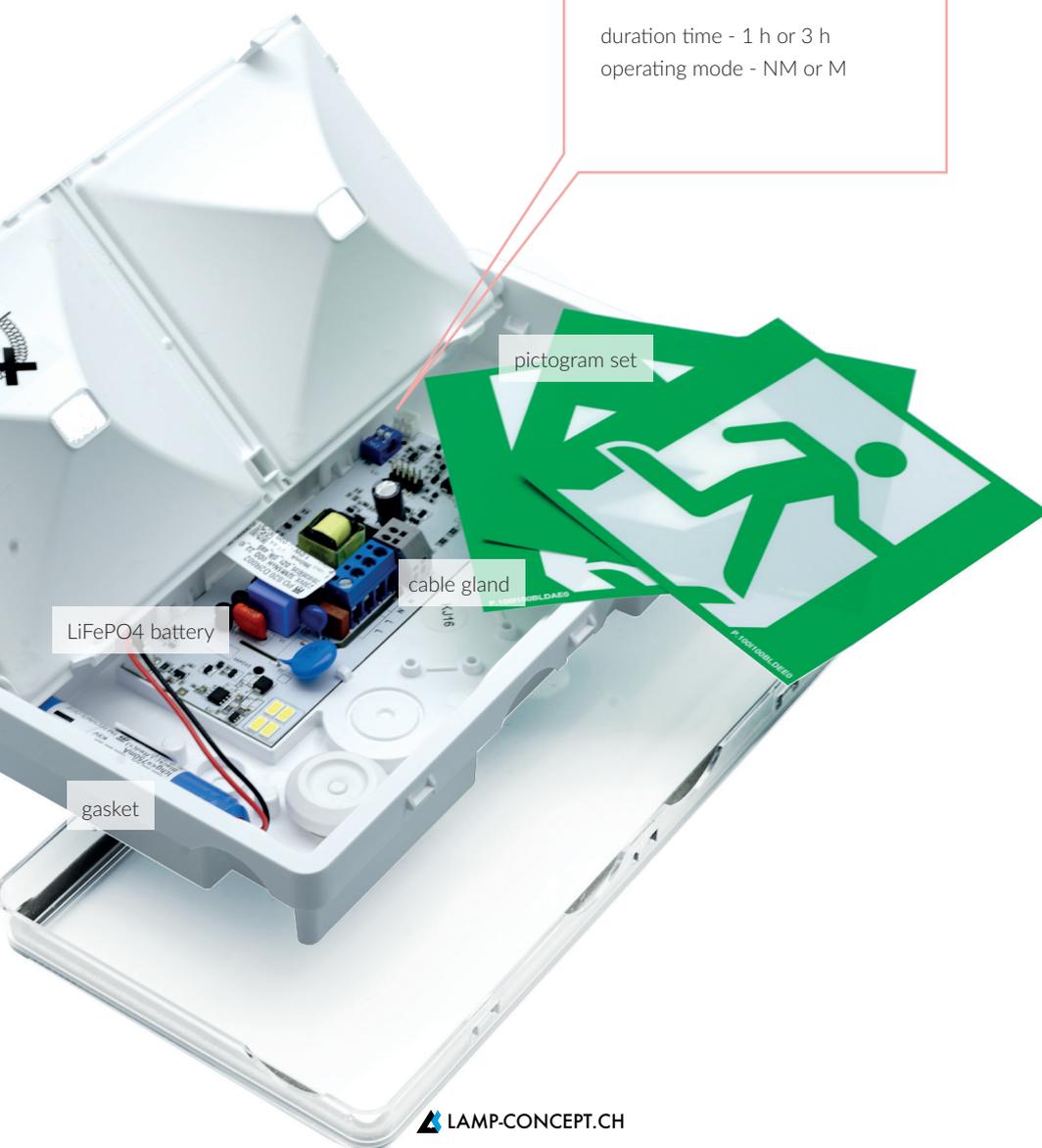


## PARAMETERS

- » Luminaire with high IP and IK (**IP65/IP67** and **IK08/IK10**) dedicated to industrial and office area
- » **COLD versions available** – without additional heating elements – low temperature tolerance, perfectly fit to warehouses and garages
- » **Universal products:**
  - » M – open space area (anti panic light),
  - » C version – evacuation route lighting (corridor lens) optimal up to 7 m high,
  - » F version – evacuation route light (corridor lens) above 7 m high,
  - » W version – fire protection points and exit doors illumination,
  - » evacuation route directions (both wall and ceiling installation).
- » Wide range of accessories which provide various options for mounting of luminaire
- » **Easy and quick installation using the IN/OUT connection - ONTEC S20 and S30**
- » Dimensions L x W x H [ $\pm 2$  mm]:
  - » ONTEC S20 - 227 x 40 x 120
  - » ONTEC S (25) - 269 x 40 x 144
  - » ONTEC S30 - 327 x 40 x 170

The M1X version enables configuration of the luminaire:

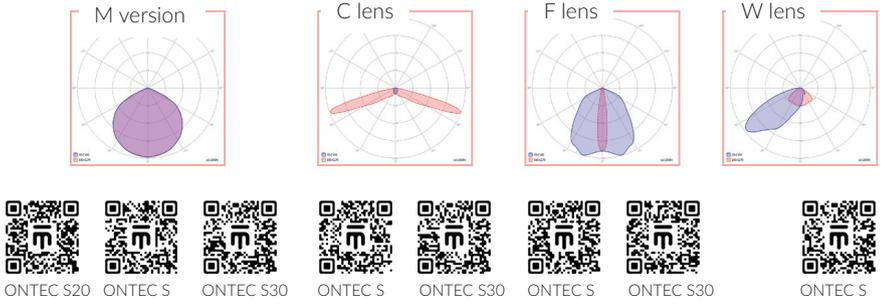
duration time - 1 h or 3 h  
operating mode - NM or M



ONTEC S + frame IP67

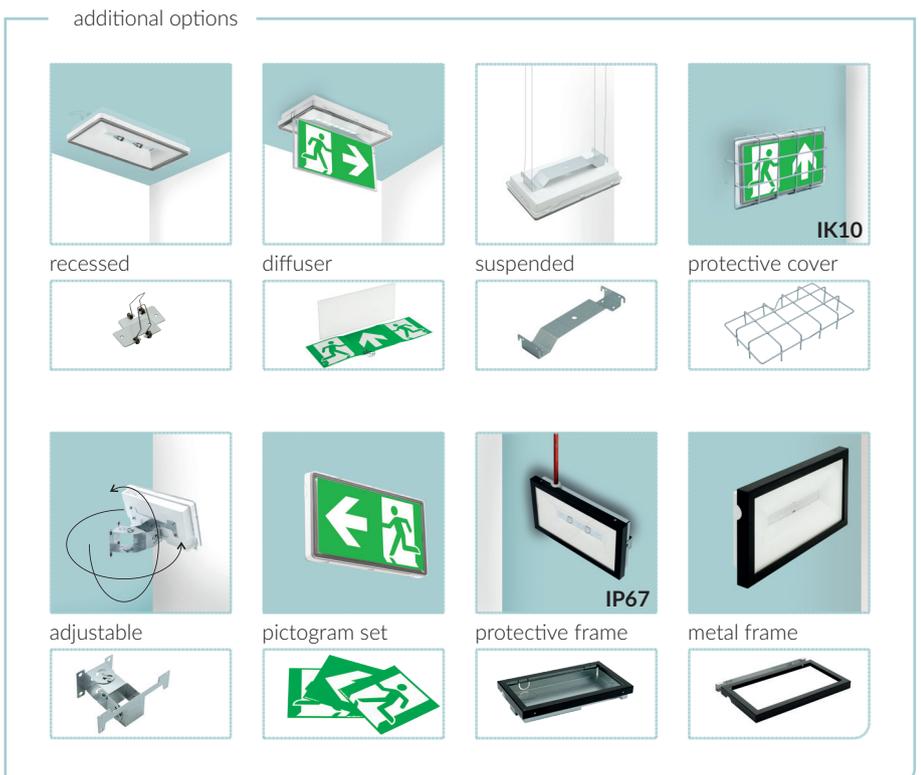
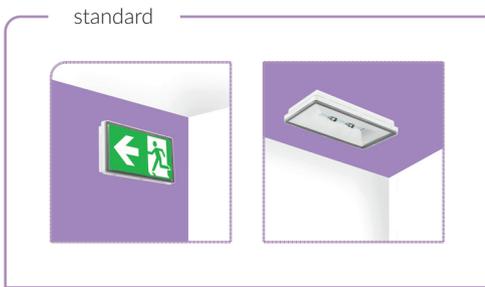
VERSIONS

» Anti-panic lighting, escape route lighting, lighting of the final exit / fire-protection devices



- » Evacuation route direction (evacuation sign)
  - » on the ceiling - using a flag with sticky pictograms
  - » on the wall - with the use of pictograms in the set

ASSEMBLY



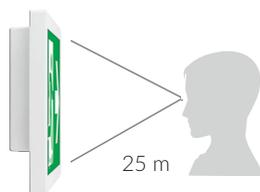
# ONTEC E

evacuation luminaire, IP20  
evacuation route direction (evacuation sign)

## PARAMETERS

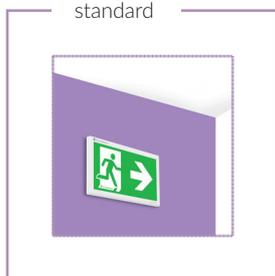
- » Evacuation luminaire which will perfectly fit to offices are, restaurants and hotels - **IP20**
- » One sided exit sign, **visibility up to 25 m, high luminance – up to 500 cd/m<sup>2</sup>**
- » **Uniformity in the light distribution** thanks to edge illumination and thousands of micro lenses on plexiglass surface
- » Dimensions: L x W x H [± 2 mm] : 277 x 32 x 152

more details

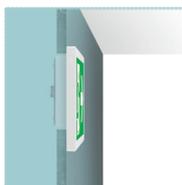


## ASSEMBLY

standard



additional options



recessed



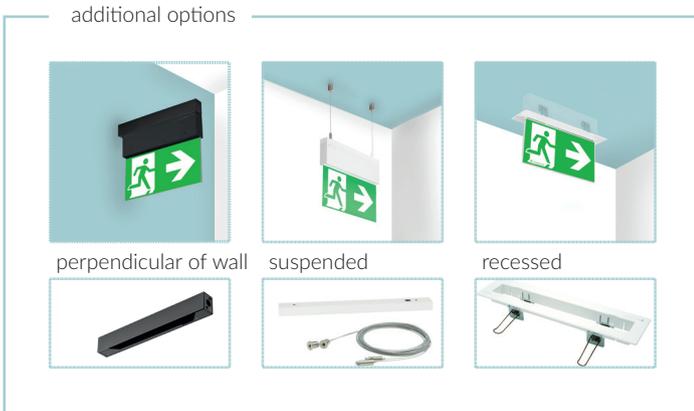
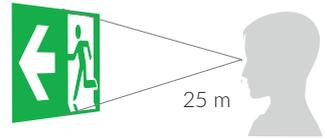
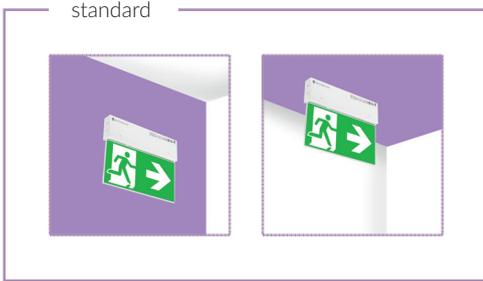
# ONTEC G

evacuation luminaire. IP20  
evacuation route direction (evacuation sign)

## PARAMETERS

- » **Elegant** design of luminaire
- » **One or double-sided** flag, **visibility up to 25 m**, **high luminance – up to 500 cd/m<sup>2</sup>**
- » **Slip-on pictogram**, without visible installation elements
- » Dimensions: L x W x H [± 2 mm] : 250 x 29 x 194

## ASSEMBLY



more details

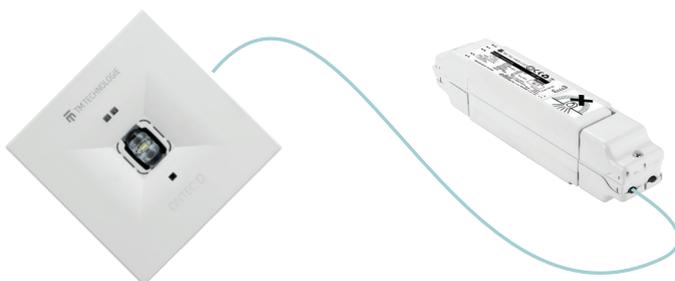


# ONTEC D

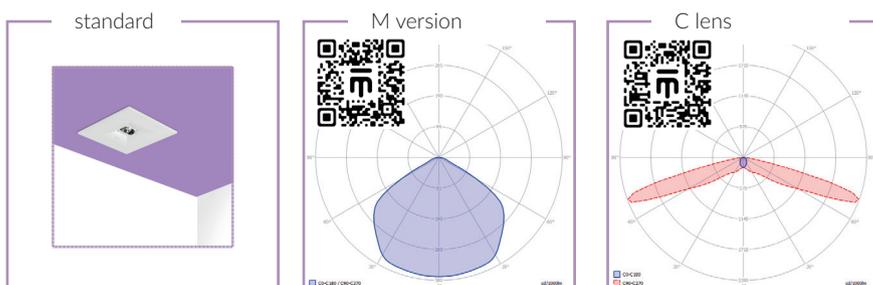
square luminaire, IP20  
**anti-panic lighting, escape route lighting**

## PARAMETERS

- » **Dedicated to suspended ceiling** – recessed mounted luminaire
- » Easy installation
- » **Minimalism** - discreet square shape with a length of 9 cm
- » Thanks to lenses options luminaire can be used as a emergency lighting were light distribution requirements are differential:
  - » M version – open space area (anti panic light)
  - » C version – evacuation route lighting (corridor lens)



## ASSEMBLY



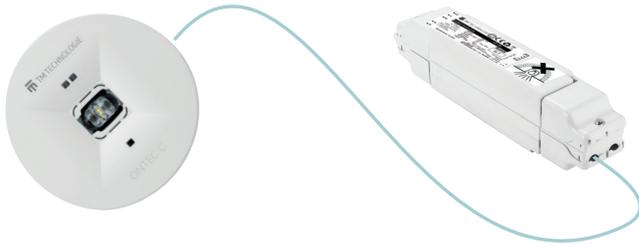
# ONTEC C

round luminaire, IP20

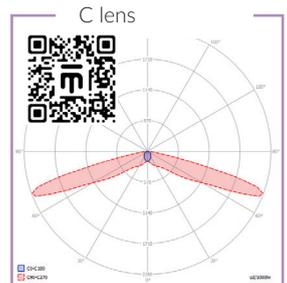
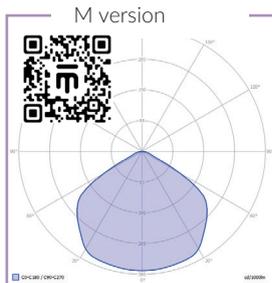
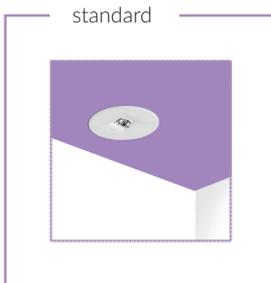
anti-panic lighting, escape route lighting

## PARAMETERS

- » **Dedicated to suspended ceiling** – recessed mounted luminaire
- » Easy installation
- » **Minimalism** - discreet round shape with 9 cm diameter
- » Thanks to lenses options luminaire can be used as a emergency lighting were light distribution requirements are differential:
  - » M version – open space area (anti panic light)
  - » C version – evacuation route lighting (corridor lens)



## ASSEMBLY



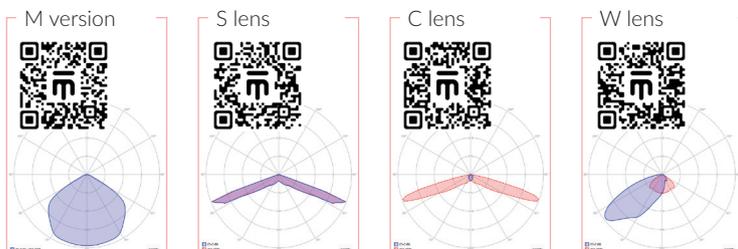
# ONTEC R

emergency luminaire, IP20

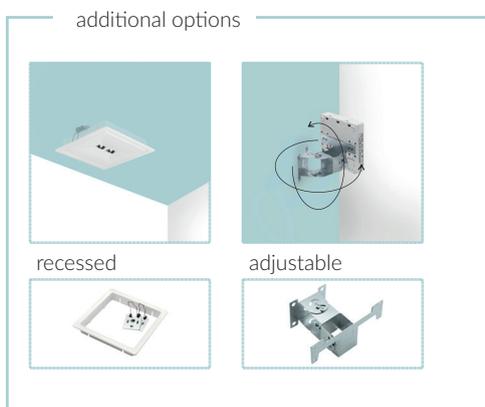
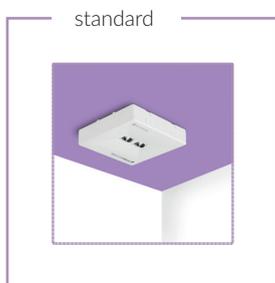
anti-panic lighting, escape route lighting

## PARAMETERS

- » **Friendly, easy and fast installation**
- » **Versions of lenses**
- » **Compact** fitting design
- » Dimensions: L x W x H [ $\pm 2$  mm] : 130 x 27 x 130



## ASSEMBLY



# ONTEC R E1

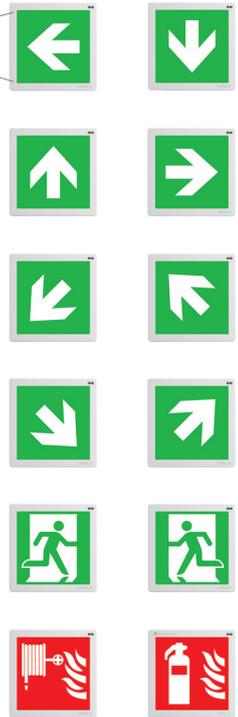
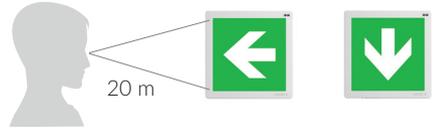
evacuation luminaire, IP20  
 identification of fire - protection devices,  
 evacuation route direction (evacuation sign)

## PARAMETERS

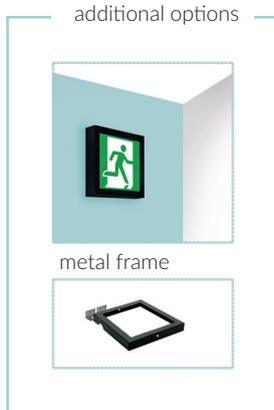
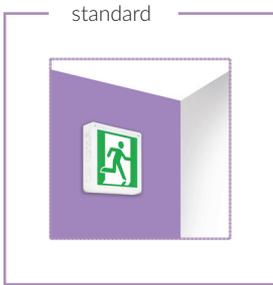
- » **Friendly, easy and fast installation**
- » **Compact** fitting design
- » **Visibility up to 20 m**
- » Dimensions: L x W x H [± 2 mm] : 130 x 27 x 130



more details

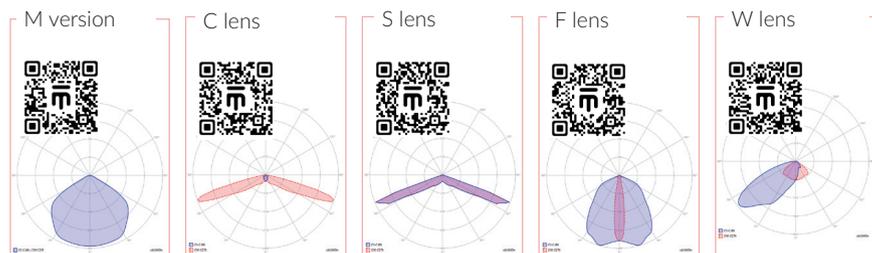


## ASSEMBLY



PARAMETERS

- » High IP and mechanical damage level protection (IP65 and IK06)
- » COLD versions available – **low temperature tolerance**
- » Plug-in connection – when the fitting is opened, the voltage on its active elements is cut off
- » Dimensions: D x H [± 2 mm] : 170 x 66,5



ASSEMBLY



additional options

recessed

suspended

adjustable



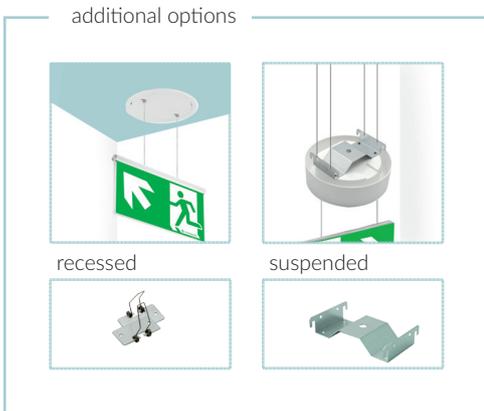
# iTECH Z

evacuation luminaire, IP65  
 evacuation route direction (evacuation sign)

## PARAMETERS

- » **High IP** - IP65
- » COLD versions available – **low temperature tolerance**
- » Plug-in connection – when the fitting is opened, the voltage on its active elements are cut off
- » **Visibility: 30 m**

## ASSEMBLY



more details



# ONTEC AN

emergency luminaire, IP20  
**anti-panic lighting, escape route lighting**

## PARAMETERS

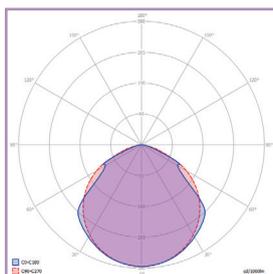
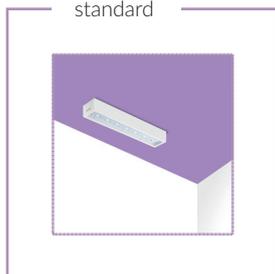
- » **Surface** (ONTEC AN) and recessed (ONTEC PN) mounting
- » **Plug-in connection** – when the fitting is opened, the voltage on its active elements are cut off
- » Installation of a diffuser in 3 steps
- » Dimensions: L x W x H [ $\pm 2$  mm] : 327 x 61 x 46

more details



## ASSEMBLY

standard



# ONTEC APN

evacuation luminaire, IP20  
evacuation route direction (escape sign)

## PARAMETERS

- » Perfect for office spaces, restaurants and hotels
- » **Surface** (ONTEC APN) and recessed (ONTEC PPN) mounting
- » **Plug-in connection** – when the fitting is opened, the voltage on its active elements are cut off
- » **Visibility: 30 m**
- » Dimensions: L x W x H [± 2 mm] : 327 x 61 x 215

more details

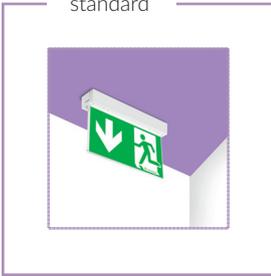


30 m

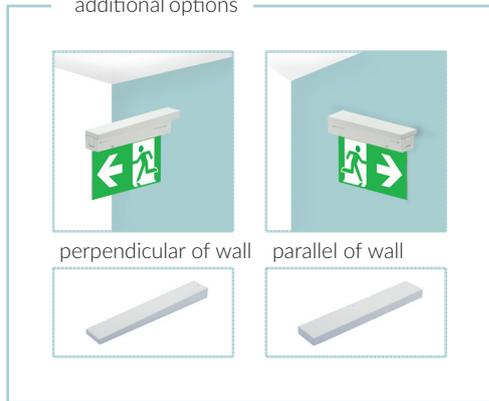


## ASSEMBLY

standard



additional options



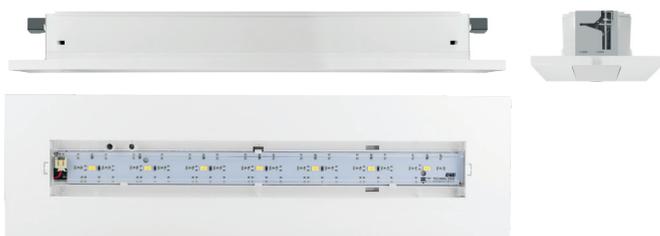
# ONTEC PN

emergency luminaire, IP20  
**anti-panic lighting, escape route lighting**

## PARAMETERS

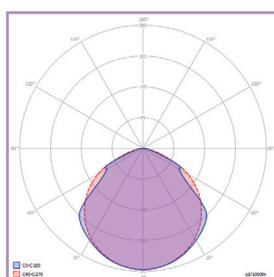
- » Perfect for **elegant spaces**, such as galleries, exhibition halls
- » Recessed installation
- » **Plug-in connection** – when the fitting is opened, the voltage on its active elements are cut off
- » Dimensions: L x W x H [± 2 mm] : 375 x 108 x 46

more details



## ASSEMBLY

standard



# ONTEC PPN

evacuation luminaire, IP20  
evacuation route direction (escape sign)

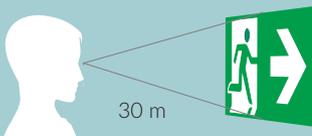
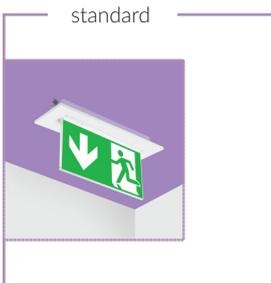
## PARAMETERS

- » Perfect for **elegant spaces**, such as galleries, exhibition halls
- » Recessed installation
- » **Plug-in connection** – when the fitting is opened, the voltage on its active elements are cut off
- » **Visibility: 30 m**
- » Dimensions: L x W x H [± 2 mm] : 375 x 108 x 215

more details



## ASSEMBLY



made with thought  
about **design**



# PRIMO

A series of premium metal fittings

Material	 Polished stainless steel
	 RAL 9003 powder coated black steel
	 RAL 9005 powder coated black steel
Insulation class	I
IP	IP20
Battery	<p>LiFePO4 </p> <p>TM TECHNOLOGIE offers the LiFePO4 battery as a standard because you, your surroundings and the environment are of the highest importance.</p> <p>In comparison to Nickel-Cadmium (Ni-Cd) batters, LiFPO4 batters have three times as many work cycles, while in comparison to nickel metal hydride batteries (Ni-MH) up to five times more work cycles! That translates to an average lifespan of LiFePO4 battery at 6-8 years.</p> <p>LiFePO4 batteries are not subject to the memory effect, i.e. there is no need for performing the standard three battery charge/di-charge cycles.</p>
Operating mode	<ul style="list-style-type: none"> <li>» NM - non maintained</li> <li>» M - maintained</li> </ul>
Duration time	<ul style="list-style-type: none"> <li>» 1 h / 60 min</li> <li>» 3 h /180 min</li> </ul>
Test version	<ul style="list-style-type: none"> <li>» ST – for button test</li> <li>» AT – auto-test / self-test</li> <li>» DATA 2 – with addressable module for DATA 2 system</li> <li>» DALI – with addressable module for DALI systems</li> <li>» CB - without addressable module</li> <li>» CBA - with addressable module</li> </ul>
Warranty	up to 5 years!



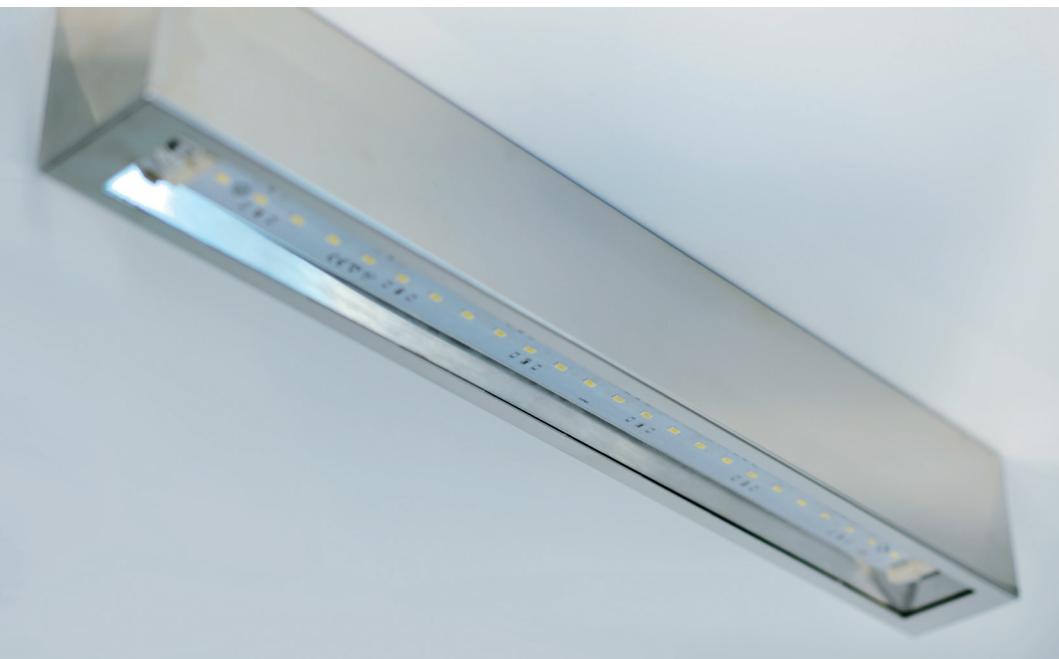
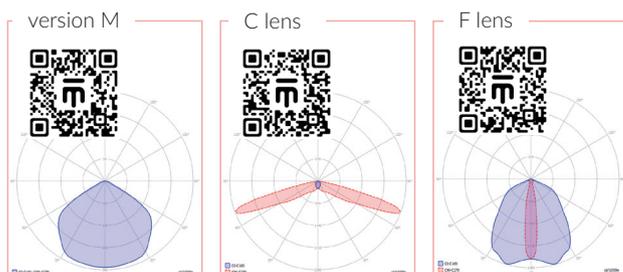
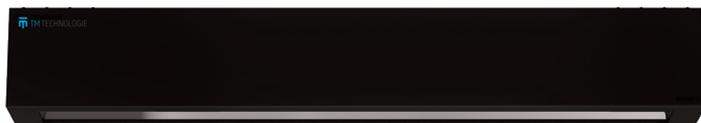
# PRIMO A

surface mounted luminaire, IP20  
anti-panic lighting, escape route lighting

## PARAMETERS

- » Available in **3 sizes and 3 optical versions** allowing it to be adapted to any space
- » Perfect for **loft areas** - metal luminaire
- » Dimensions: L x W x H [ $\pm 2$  mm] :
  - » PRIMO A C1 - 550 lm - 273 x 61 x 75
  - » PRIMO A F1 - 550 lm - 273 x 61 x 75
  - » PRIMO A M2 - 750 lm - 323 x 61 x 75
  - » PRIMO A M4 - 1500 lm - 500 x 61 x 75

## ASSEMBLY



# PRIMO P

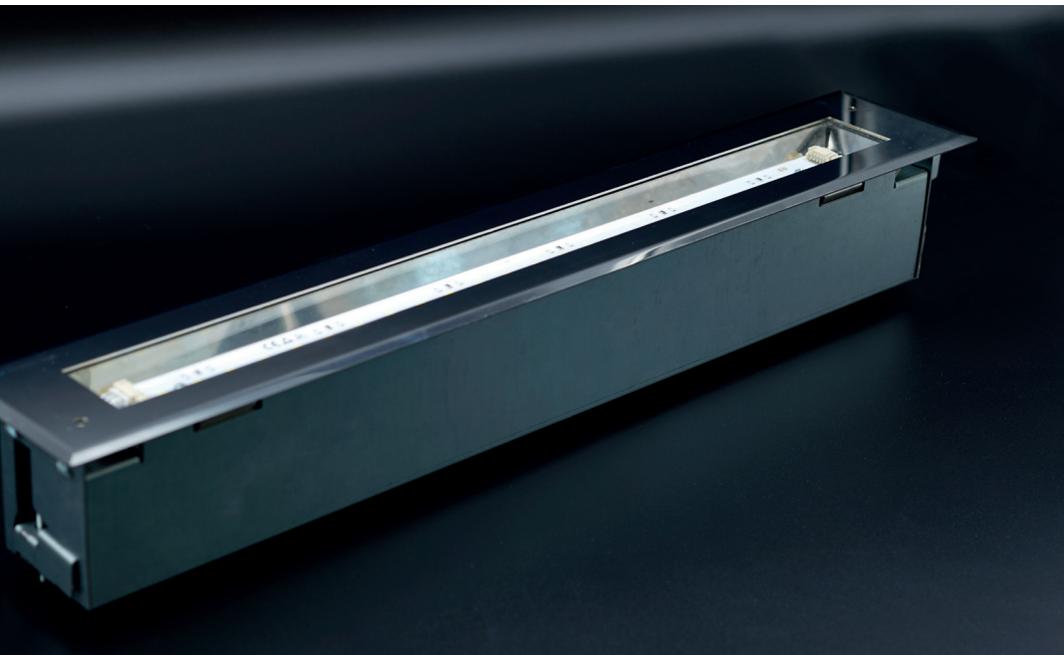
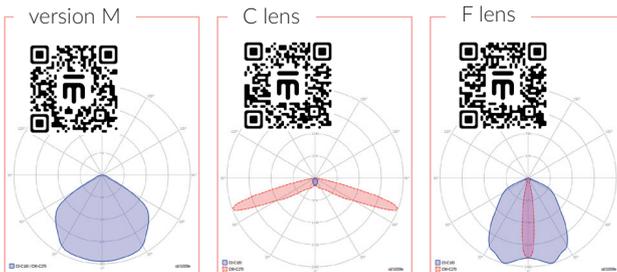
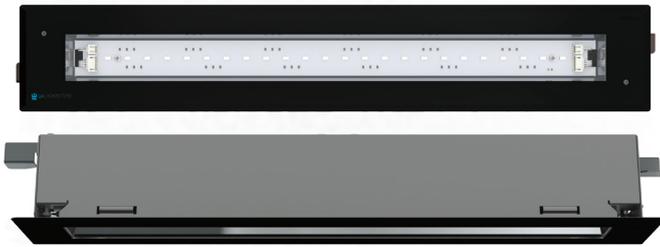
recessed luminaire, IP20

anti-panic lighting, escape route lighting

## PARAMETERS

- » **Perfect for loft areas**
- » Dimensions: L x W x H [ $\pm 2$  mm]
  - » PRIMO P C1 - 550 lm - 307 x 90 x 88
  - » PRIMO P F1 - 550 lm - 307 x 90 x 88
  - » PRIMO P M2 - 750 lm - 357 x 90 x 88

## ASSEMBLY



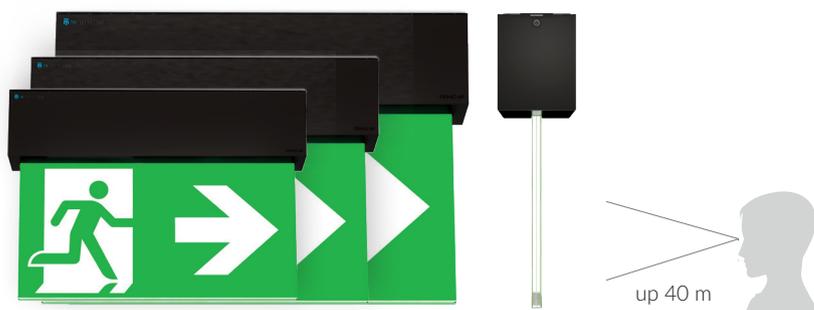


# PRIMO AP

surface mounted luminaire, IP20  
evacuation route direction (evacuation sign)

## PARAMETERS

- » **Double-sided version**
- » **Three pictogram sizes available**
- » Dimensions: L x W x H [ $\pm 2$  mm]:
  - » PRIMO AP25 - visibility 25 m - 273 x 61 x 186
  - » PRIMO AP30 - visibility 30 m - 323 x 61 x 228
  - » PRIMO AP40 - visibility 40 m - 423 x 61 x 261



## ASSEMBLY



more details



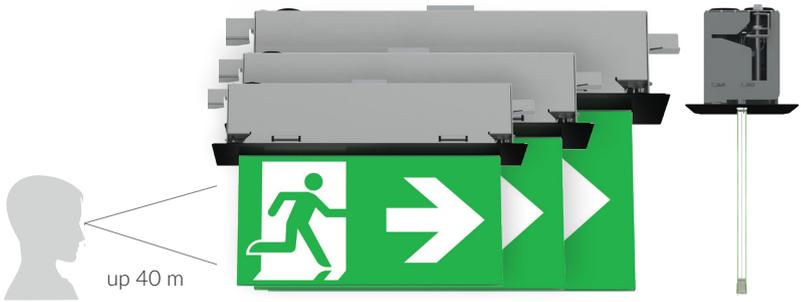
# PRIMO PP

recessed luminaire, IP20

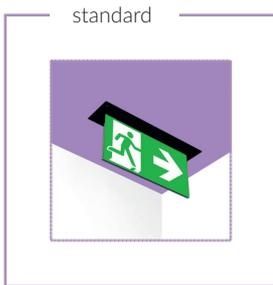
evacuation route direction (evacuation sign)

## PARAMETERS

- » **Double-sided version**
- » **Three pictogram sizes available**
- » Dimensions: L x W x H [ $\pm 2$  mm]:
  - » PRIMO PP25 - visibility 25 m - 307 x 91 x 204
  - » PRIMO PP30 - visibility 30 m - 386 x 91 x 240
  - » PRIMO PP40 - visibility 40 m - 452 x 91 x 279



## ASSEMBLY



more details



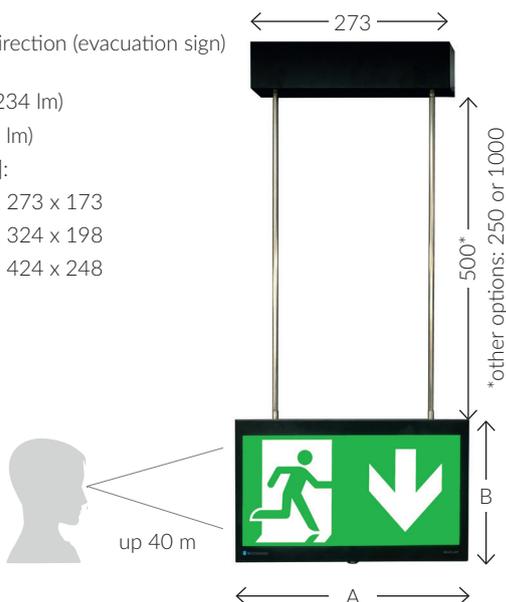


# PRIMO APZ

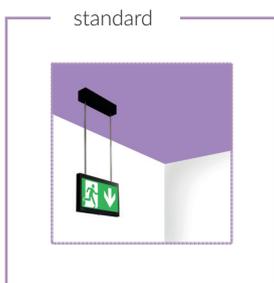
surface mounted luminaire, IP20  
 evacuation route direction (evacuation sign),  
 anti-panic lighting, escape route lighting

## PARAMETERS

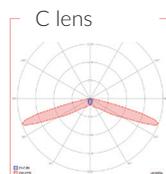
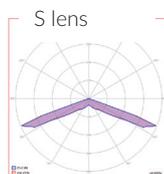
- » **Suspended** luminaire internally illuminated pictogram
- » **Three pictogram sizes available**
- » **Double-sided version**
- » **Two functions** – evacuation route direction (evacuation sign) and optional:
  - » escape route lighting (C lens - 234 lm)
  - » anti-panic lighting (S lens - 256 lm)
- » Visibility, dimensions: A x B [ $\pm 2$  mm]:
  - » PRIMO APZ25 - visibility 25 m, 273 x 173
  - » PRIMO APZ30 - visibility 30 m, 324 x 198
  - » PRIMO APZ40 - visibility 40 m, 424 x 248



## ASSEMBLY



more details

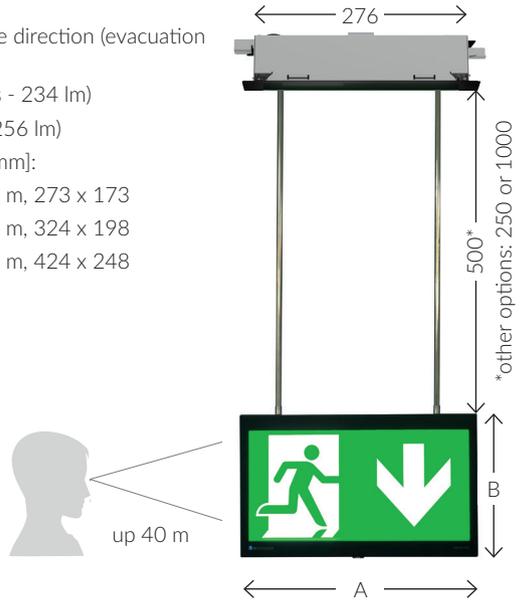


# PRIMO PPZ

recessed luminaire, IP20  
 evacuation route direction (evacuation sign),  
 anti-panic lighting, escape route lighting

## PARAMETERS

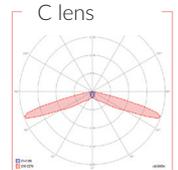
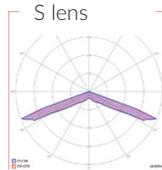
- » Recessed luminaire with **suspended** and internally illuminated pictogram
- » **Three pictogram sizes available**
- » **Double-sided version**
- » **Two functions** – evacuation route direction (evacuation sign) and optional:
  - » escape route lighting (C lens - 234 lm)
  - » anti-panic lighting (S lens - 256 lm)
- » Visibility, dimensions: A x B [± 2 mm]:
  - » PRIMO PPZ25 - visibility 25 m, 273 x 173
  - » PRIMO PPZ30 - visibility 30 m, 324 x 198
  - » PRIMO PPZ40 - visibility 40 m, 424 x 248



## ASSEMBLY



more details



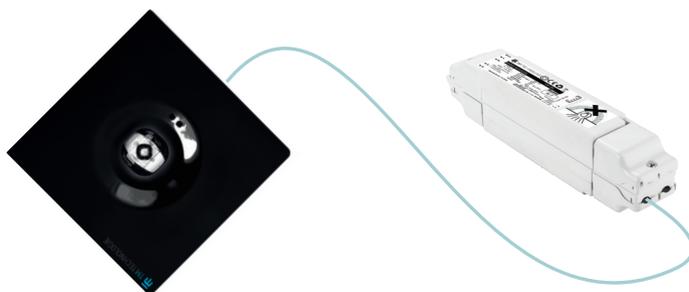
# PRIMO D

square luminaire, IP20

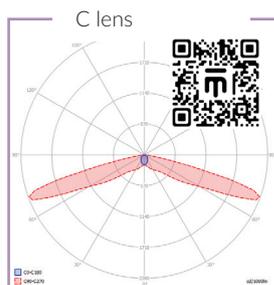
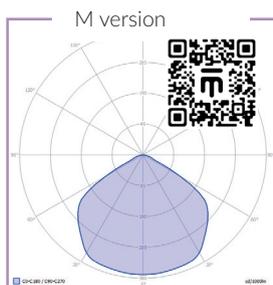
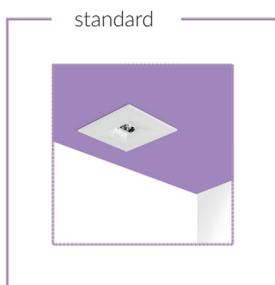
anti-panic lighting, escape route lighting

## PARAMETERS

- » **Dedicated to suspended ceiling** – recessed mounted luminaire
- » **Easy installation**
- » **Minimalism** - discreet square shape with a length of 9 cm
- » Modern luminaire design thanks to metal finish
- » Thanks to lenses options luminaire can be used as a emergency lighting were light distribution requirements are differential:
  - » M version – open space area (anti panic light)
  - » C version – evacuation route lighting (corridor lens)



## ASSEMBLY



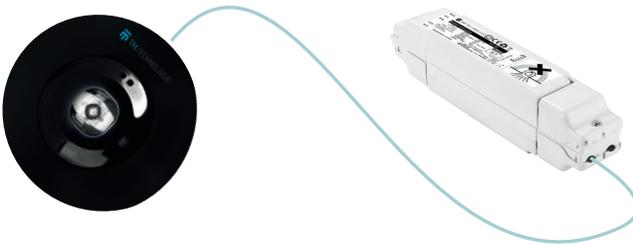
# PRIMO C

round luminaire, IP20

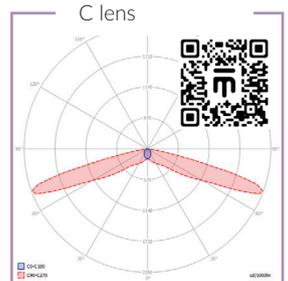
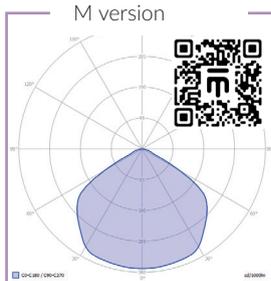
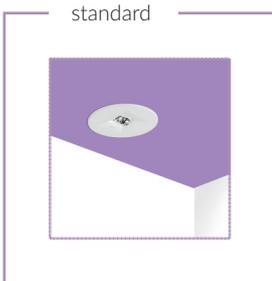
anti-panic lighting, escape route lighting

## PARAMETERS

- » **Dedicated to suspended ceiling** – recessed mounted luminaire
- » **Easy installation**
- » **Minimalism** - discreet round shape with 9 cm diameter
- » Modern luminaire design thanks to metal finish
- » Thanks to lenses options luminaire can be used as a emergency lighting were light distribution requirements are differential:
  - » M version – open space area (anti panic light)
  - » C version – evacuation route lighting (corridor lens)



## ASSEMBLY





# PRIMO R

emergency luminaire, IP20

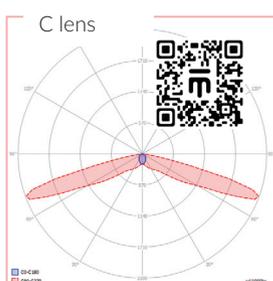
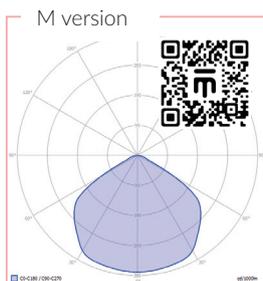
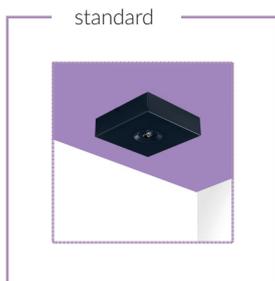
anti-panic lighting, escape route lighting

## PARAMETERS

- » **Surface mounted**
- » Perfect for use as anti-panic lighting or escape route lighting
- » **Compact** fitting design
- » **Modern** luminaire design thanks to **metal finish**



## ASSEMBLY



# PRIMO R \*\*P

evacuation luminaire, IP20

identification of fire - protection devices,  
evacuation route direction (evacuation sign)

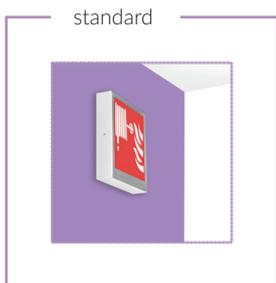
## PARAMETERS

- » **Surface mounted**
- » Ideal for **elegant spaces** such as galleries, exhibition halls - visibility of the sign from 30 or 40 meters
- » Modern and **original design** emphasizes industrial spaces
- » **Even light distribution**
- » Dimensions: L x W x H [ $\pm 2$  mm] :
  - » PRIMO R 30P - visibility 30 m - 218 x 36 x 301
  - » PRIMO R 40P - visibility 40 m - 268 x 36 x 401

more details



## ASSEMBLY





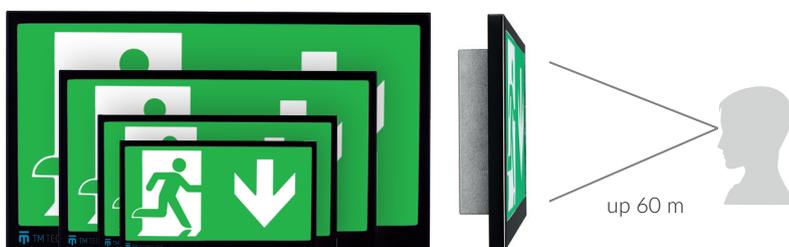
# PRIMO E

evacuation luminaire, IP20

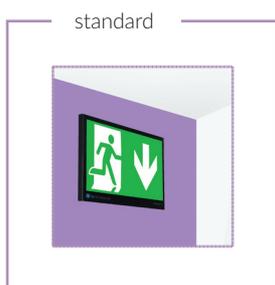
evacuation route direction (evacuation sign)

## PARAMETERS

- » Perfect as an evacuation route direction (evacuation sign) on **large areas** of the airport, exhibition halls
- » **Even light distribution**
- » **High luminance - up to 500 cd/m<sup>2</sup>**
- » Dimensions: L x W x H [ $\pm 2$  mm] :
  - » PRIMO E 25 - visibility 25 m - 271 x 38,5 x 158
  - » PRIMO E 30 - visibility 30 m - 321 x 38,5 x 183
  - » PRIMO E 40 - visibility 40 m - 421 x 38,5 x 233
  - » PRIMO E 60 - visibility 60 m - 621 x 38,5 x 333



## ASSEMBLY



more details

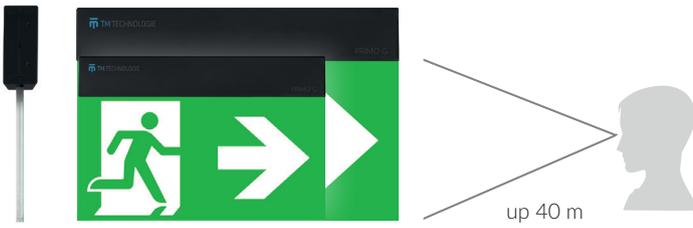


# PRIMO G

evacuation luminaire, IP20  
evacuation route direction (evacuation sign)

## PARAMETERS

- » **Surface** mounted
- » **Visibility: 30 or 40 meters**
- » **High luminance – up to 500 cd/m<sup>2</sup>**
- » **Slip-on pictogram**, without visible installation elements
- » Dimensions: L x W x H [± 2 mm] :
  - » PRIMO G 30 - visibility 30 m - 300 x 30 x 217
  - » PRIMO G 40 - visibility 40 m - 400 x 30 x 268



## ASSEMBLY



more details





# PRIMO Q

evacuation luminaire, IP20  
evacuation route direction (evacuation sign)

## PARAMETERS

- » Perfect as an evacuation route direction (evacuation sign) on **large areas** of the airport or loft areas
- » Designed to used at the crossroads of escape routes
- » Luminaire with suspended and internally illuminated pictogram
- » Dimensions: L x W x H [ $\pm 2$  mm] :
  - » PRIMO Q 40 - visibility 40 m - 499 x 377 x 267

more details



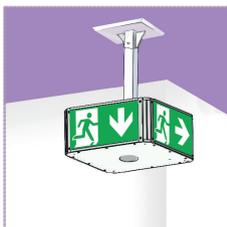
up to 40 m

## ASSEMBLY

options

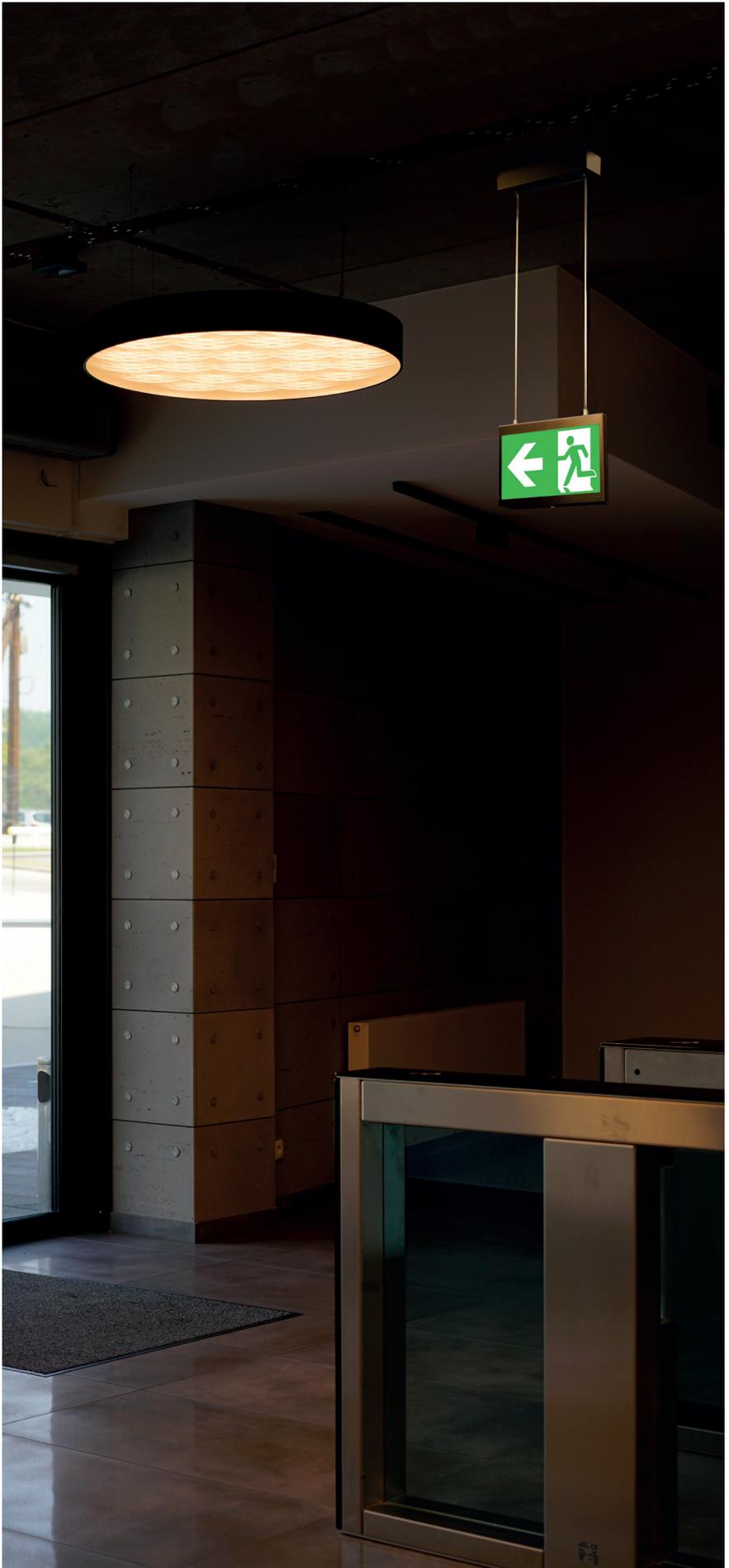


suspended - steel rope



suspended - kit







# PICTOGRAMS

- | for any emergency luminaire
- | in all possible designs
- | with the best luminance

ONTEC S20	100x100	PRIMO G 30	300x150
ONTEC S	246x123	PRIMO G 40	400x200
ONTEC S30	150x150	PRIMO R 25	143x154
ONTEC R	110x110	PRIMO R 30	168x179
ONTEC G	250x125	PRIMO E 25	267x154
ONTEC E	265x139	PRIMO E 30	317x179
PRIMO AP/PP 25	125x250	PRIMO E 40	417x229
PRIMO AP/PP 30	150x300	PRIMO E 60	617x329
PRIMO AP/PP 40	200x400	PRIMO R 40	218x229
PRIMO APZ/PPZ 25	269x168		
PRIMO APZ/PPZ 30	319x193		
PRIMO APZ/PPZ 40	419x243		





DB



DC



DK



DJ



D1



D6



DH



DD



D2



D5



DI



D9



D4



D7



DG



DF



D3



D8



DE



DM



I2



I5



DA



DL



I3



I8



F2



W1



W2



F1



F1



F2

# DATA 2

self-contained addressable system



more details



# USABILITY

system | self-contained addressable system

## Central monitoring of the emergency lighting luminaire condition

- » Comfortable User Interface - touchscreen,
- » Automatic reporting of the status of all system components,
- » Flexible communication with emergency luminaires - depending on the needs it can be wired (without polarity) or wireless (Radio 868MHz),
- » Easy system update via USB port,
- » Additional protection against interference by unauthorized persons through different levels of rights,
- » Can be connected with different Smart Building Systems (BMS) via I/O module NO/NC or Modbus connection.

## Additional possibility to easily create and manage emergency lighting luminaires thanks to

- » **Test groups** – used to automatically trigger function or autonomy tests,
- » **Night groups** – used to configure the control of the so-called “maintained” operation and allow to set fittings in the dimming mode,
- » **Fire and emergency groups** – activation of fitting in the appropriate operating state in response to the fire signal,
- » **Fire scenarios** – the window allows to configure the fitting response to each of the eight fire scenarios. The window allows to configure the fitting to operate as a prohibition sign (used for dynamic lighting).

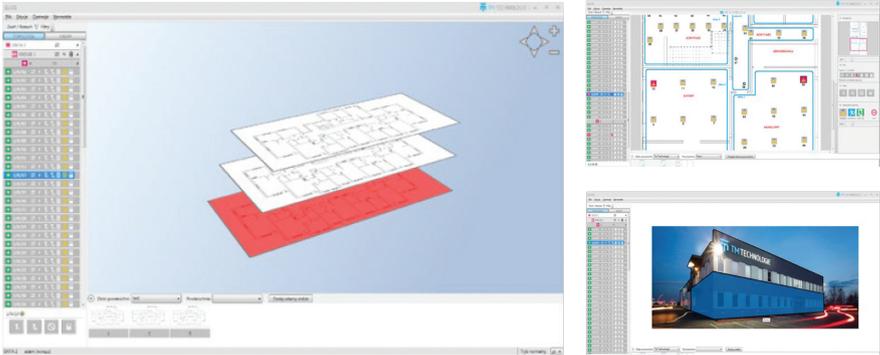


# ELVIS

emergency lighting visualization intelligent system

## Emergency Lighting Visualization System

An additional facilitation in the management of emergency lighting luminaires is the software that visualizes the arrangement of luminaires on the actual plan of the building. It enables remote management and testing of emergency lighting fittings, as well as generating and downloading reports required by law.

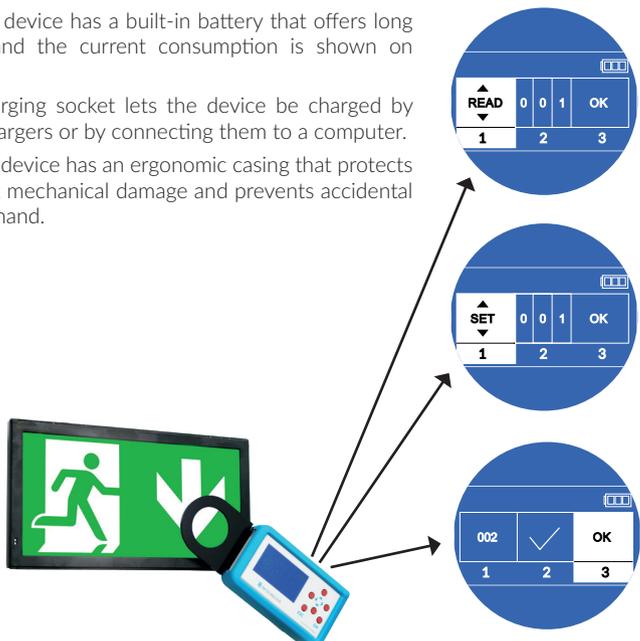


# TM-PROG RFID

addressing and reading of luminaire addresses

**TM-PROG RFID is a programming device used to read and addresses of lighting fittings that are compliant with TM-CB A or DATA 2 /DATA 2 EASY system.**

- » Programming is executed in a wireless mode that provides for operation without connecting lighting fittings to a power supply.
- » The programming device has a built-in battery that offers long operating time, and the current consumption is shown on a display.
- » The provided charging socket lets the device be charged by using universal chargers or by connecting them to a computer.
- » The programming device has an ergonomic casing that protects the device against mechanical damage and prevents accidental slipping from the hand.



# VARIANTS

DATA 2 series



## wireless communication

DATA 2 RADIO

maximum number of emergency fittings / C-BRIDGE 2	128
maximum number of communication channels	-
maximum number of C-Bridge 2 signal distributor	8
maximum number of emergency fittings in the system	1024



## wire communication

DATA 2

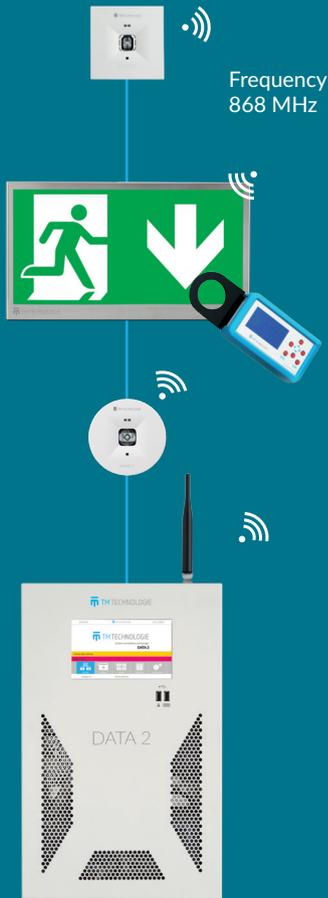
maximum number of emergency fittings / channel	64
maximum number of communication channels	4
maximum number of C-Bridge 2 signal distributor	16
maximum number of emergency fittings in the system	4096

# TOPOLOGY

DATA 2 series

## DATA 2 RADIO

up to 1024 fittings



← Communication with ELVIS, WWW, MODBUS TCP - LAN →

## ELVIS

Emergency Lighting Visualisation System



**TM.PROG RFID**

Thanks to RFID technology, it enables easy, fast, wireless setting or changing the address of the luminaire even without opening it, which saves time and money.



**DATA 2**

up to 4096 fittings



Communication with fittings addressable - TM-BUS 2 wire (without polarity)

For example:  
YTKSYekw  
1x(2x0.8 mm<sup>2</sup>)



← Communication with C-Bridge 2 - →  
RS 485 port



Frequency  
868 MHz



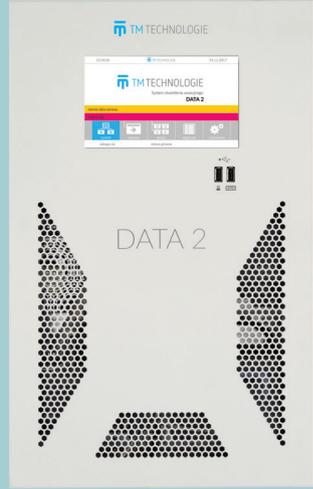
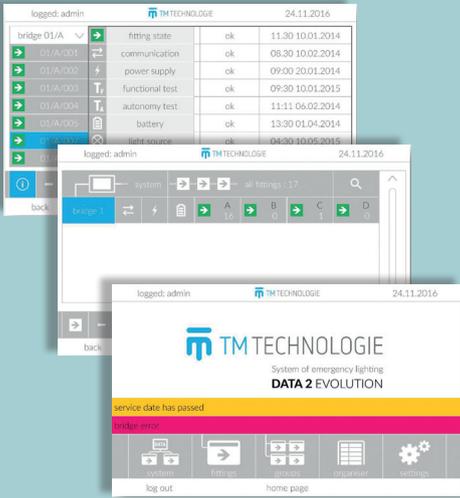
TM-BUS 2 wire



# USABILITY

system possibilities

\*



\* only RADIO version

## The control panel is based on an industrial computer with a touch screen.

- » The embedded TM TECHNOLOGIE software allows the user to manage the system in a broad sense, from creating user accounts with various access rights to remote management from anywhere via the Internet.
- » The available options of the system lead to the required information about the current state of each emergency luminaire in a simple and clear way.
- » The intuitive user interface is available in various language versions, which makes the system friendly and easy to use.
- » By creating various types of groups of devices and giving them features, the user can carry out individual tasks using the schedule or external signals.
- » The control panel automatically controls and tests emergency lighting fittings, at the same time creates, saves and, if necessary, distributes periodic reports on the system status, thanks to which it allows to meet the normative requirements referred to in the applicable European Harmonized Standards
- » Moreover, for the user's safety, the control panel records all activities performed by system operators.

## The toolbar allows to:

-    » add, remove or rename the group
-  » add multiple fittings to the selected test group
-   » trigger the function/autonomy test of all fittings assigned to the group,
-   » lock or unlock the fitting

# C-BRIDGE 2

signal distributor

**C-BRIDGE 2 a system component that is usually installed together with the C-Panel inside the same housing, constituting a complete unit for central monitoring of emergency lighting.**

At the same time, a variant installed in a separate housing or DIN rail is also available for extended networks. Due to the possibility of wireless or wired communication with emergency luminaires, the following are available:

- » C-BRIDGE 2 - for the implementation of a Wired Connection using potential-free communication of TM BUS with emergency lighting fittings.
- » C-BRIDGE 2 RADIO for the implementation of a Wireless Connection with emergency luminaires using the Mesh technology 868MHz



# I/O MODULE

device enabling control of emergency lighting groups

IN input and OUT output models are available.

The DATA 2 and TM-CB system allows the connection of up to 16 I/O modules.

The address of each module is set on DiP-switches on their housing. IN SW, IN 24, IN 230 version is used to control the night lighting, fire-emergency lighting groups, fire scenarios and has 8 inputs. The output module (OUT) is used to inform about the system status. It has 8 potential-free outputs.



# TM-CB A

central battery system



[more details](#)



# USABILITY

central battery system



- » **Power supply** of emergency luminaires **from one point.**
- » **Monitoring of circuits, luminaires and grounding status.**
- » Modular design for **easy expansion.**
- » Touch navigation, **easy to use interface.**
- » Correct configuration makes the **system maintenance-free.**
- » **Building visualisation** using the ELVIS program.

## Basic version

- » Only the current of the individual circuits is monitored. The system informs the user about the damage occurrence, giving the circuit number on which the failure occurred, e.g. ballast damage, fluorescent lamp burnout

## Extended version

- » Each luminaire has a built-in addressable module that monitors the current. Thanks to this, the system can inform the user exactly which luminaire is a problem. Thanks to the use of addressed modules it is possible to flexibly configure the operation mode.

# CONTENTS

main station

## C-PANEL

system management



The control unit with touch panel. Station monitors the correct operation of emergency lighting devices. It determines their status through automatic function and autonomy tests and by checking the correctness of parameters. With this solution, information on all circuits and fittings installed in the building and connected to the system are readily and promptly available to the user at one location.

## CHARGER

the charger continuously monitors charging current, battery voltage and temperature

It is a Plug&Play type device. The device charges by selecting charging voltages depending on the cell temperature. The correct operation of the charger, as well as errors are indicated by means of diodes.

## COORDINATOR

controller of the entire station; performs all control and monitoring functions

LEDs on the front panel inform about the correct operation of the station in real time. It is responsible for: measurement of battery charging and discharging current, battery voltage, battery symmetry voltage, power supply voltage amplitude, internal system temperature and interaction with the user by displaying system status information.

## CIRCUIT CONTROLLER

device that controls the operation of the output circuits

Depending on the operation mode, it switches on the appropriate voltage type, controls monitoring fittings, conducts current measurements, switches luminaires to modified mode. One circuit controller supports two output circuits.

## BATTERY

power supply for luminaires included in the system

Luminaires belonging to the system are powered centrally from the main station or substation, which makes the service and use of the system convenient.

# VARIANTS

model specification

Substations can be connected to main station. The each substation enables the system to be expanded by maximum of 24 more circuits. The maximum number of supported circuits is 1536, which allows you to connect and monitor up to 30 720 luminaires.

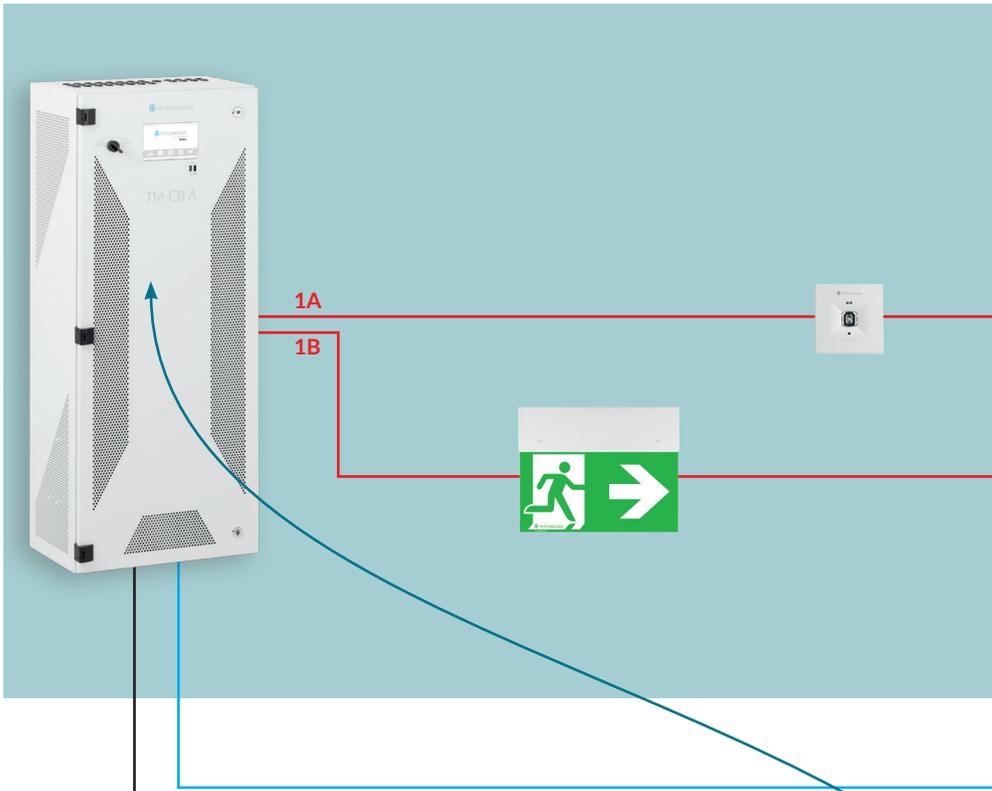
$$20 \times 24 \times (63 + 1) = 30\,720$$

maximum number of emergency fittings / circuit     
 maximum number of circuits     
 maximum number of substations     
 maximum number of stations     
 maximum number of emergency fittings in the system

Model	Maximum power [W]				Battery capacity	Number of circuits	Number of fittings	Panel	
	/1 h	/2 h	/3 h	/8 h					
S0	S0506	650	417	270	124	5 Ah	6	-	
	S0506P							+	
	S0510						10	200	-
	S0510P								+
	S0706	900	580	400	173	7 Ah	6	-	
	S0706P							+	
	S0710						10	200	-
	S0710P								+
S1	00710	900	580	400	173	7 Ah	10	-	
	00710P							+	
	00724						24	480	-
	00724P								+
	01210	1560	1110	650	298	12 Ah	10	-	
	01210P							+	
S2	01224	1560	1110	650	298	12 Ah	24	-	
	01224P							+	
	01810	2330	1670	970	447	18 Ah	10	-	
	01810P							+	
S3	01824	2330	1670	970	447	18 Ah	24	-	
	01824P							+	
	02610	3370	2410	1400	645	26 Ah	10	-	
	02610P							+	
	02624					24	480	-	
	02624P							+	
	03310	4280	3060	1780	819	33 Ah	10	-	
	03310P							+	
	03324					24	480	-	
	03324P							+	

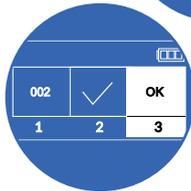
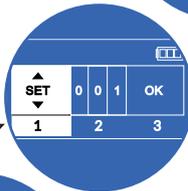
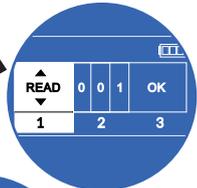
# TOPOLOGY

central battery system



## TM.PROG RFID

Thanks to RFID technology, it enables easy, fast, wireless setting or changing the address of the luminaire even without opening it, which saves time and money.

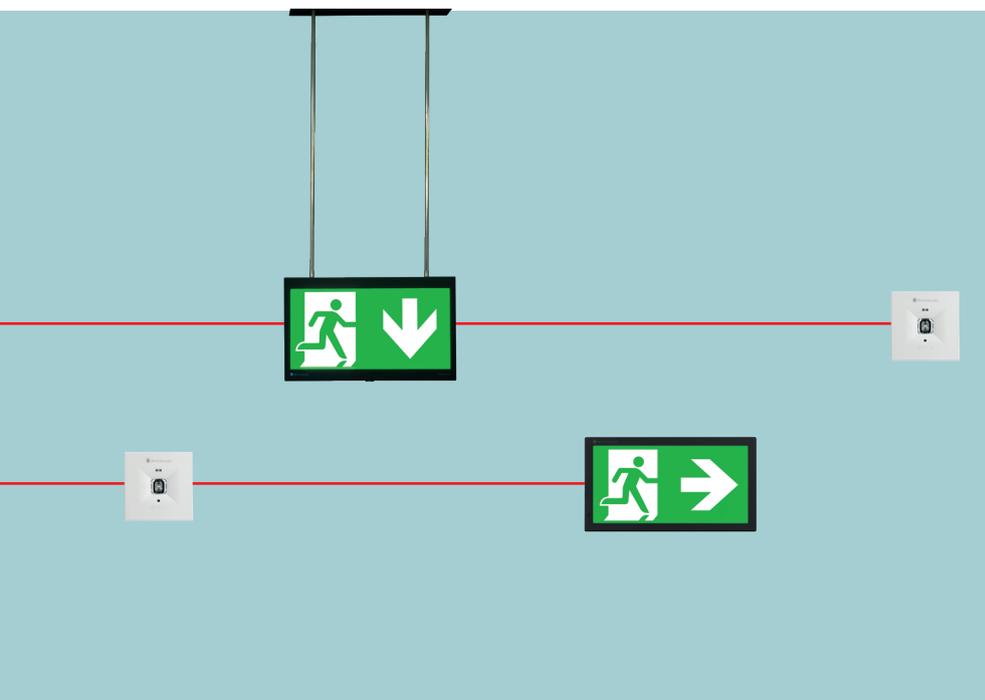


## SUBSTATION

The substation allows:

- » add 6 or 10 circuits - S0
- » add 10 or 24 circuits - S1-S3

It has the same parameters as the station except for one feature - it is not equipped with a touch screen LCD panel. It has 9 diodes indicating the system status and operation correctness. TM-CB A Central Battery System enables connection of up to 63 substations.



Communication with ELVIS, WWW, MODBUS TCP - LAN



**ELVIS**  
Emergency Lighting Visualisation System

An additional facilitation in the management of emergency lighting luminaires is the software that visualizes the arrangement of luminaires on the actual plan of the building. It enables remote management and testing of emergency lighting fittings, as well as generating and downloading reports required by law.

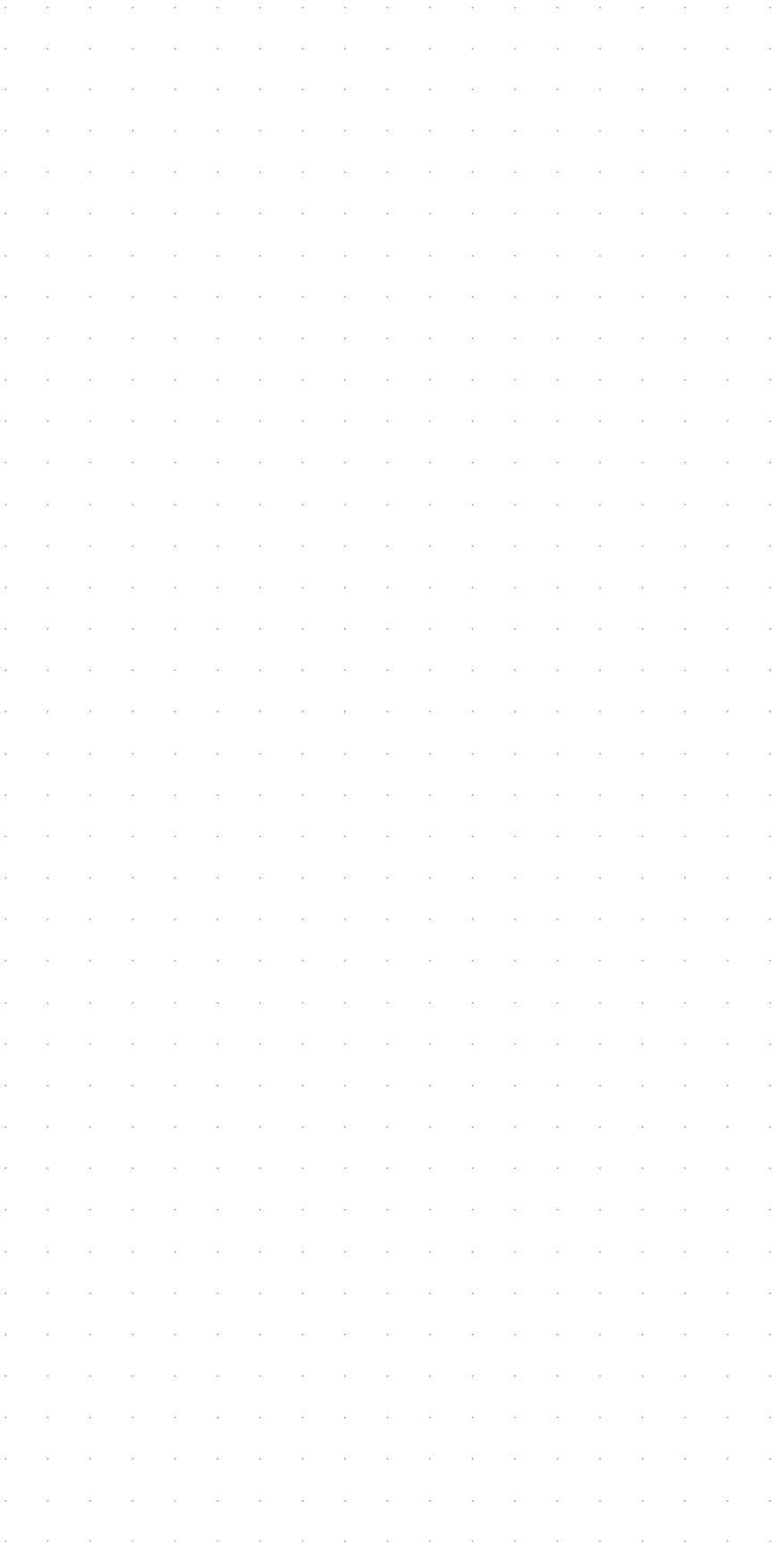


**I/O MODULE**

Device enabling control of emergency lighting groups.

- » IN input and OUT output models are available.
- » The DATA 2 and TM-CB system allows the connection of up to 16 I/O modules.
- » The address of each module is set on DiP-switches on their housing. IN SW, IN 24, IN 230 version is used to control the night lighting, fire-emergency lighting groups, fire scenarios and has 8 inputs. The output module (OUT) is used to inform about the system status. It has 8 potential-free outputs.







Safety first.



**LAMP CONCEPT**  
LIGHTING

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