

# RDF Lighting Power and Control



**RDF**



**Lighting-Power-Control**

The best emergency lighting

## THE POWER BEHIND EMERGENCY LIGHTING

We specialise in fully certified emergency lighting and exit signs together with smart systems for automated testing to British Standards and regulations.



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All our emergency lighting products are available with the capability to connect with our smart addressable central battery systems (CBUs), addressable self-contained systems and wireless systems. All our emergency lighting products are also available with DALI connection to work with any DALI control system.

RDF and TM Technologie care about the environment, the quality of our products and the staff that make up our companies. We have ISO 14001:2015 for quality management and OHSAS 18001 for work safety.

Not only are all our products CE marked to show compliance to all European norms and standards, the British Standards Kite Mark is also applied to show the products have been locally third party assessed in the UK by the British Standards test house at the Lighting Industry Association (the LIA).

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# ONTEC S M1, M2, M5, 301 M/NM ST/AT

IP65 High Output Emergency Bulkhead and Exit Sign with Options for Higher Output and Automatic Test



Optional Drop Blade / Flag

Dimensions (mm)



## PARAMETERS

Application	anti-panic light / exit sign
IP	IP65
IK	08
Versions	M1, M2, M5, AT (auto-test)
Power supply	230V AC
Temperature range	+5 to +55 °C
Material	PC (various colours)
Viewing distance	25m exit legend included (M1)
Duration time	3 hours
Operating mode	maintained / non-maintained
Light output power	2.3W, 4.7W or 6.8W
Insulation class	2
Luminous flux	141, 241 or 568 lm
Battery	optional; Ni-Cd or LiFePO <sub>4</sub> /C

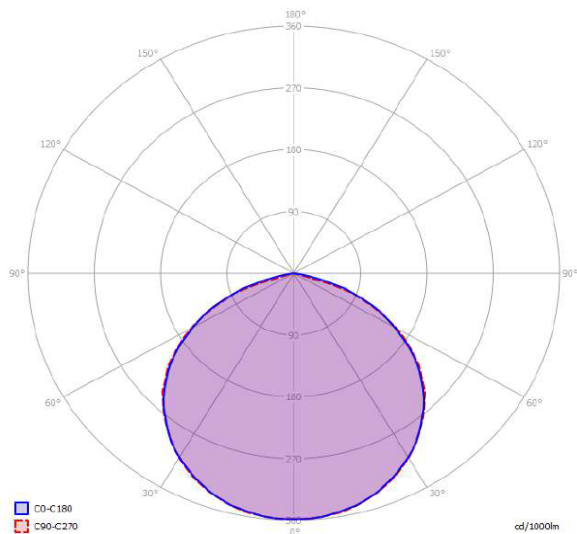
## FEATURES

- High output IP65 bulkhead emergency light with optional automatic test (AT)
- Multiple versions available with choice of light output, battery, lenses and accessories
- Universal exit legends included in M1 versions for arrow up, down, left and right directions
- 5 year warranty with 3 year warranty on the long life lithium iron phosphate battery
- Drop legend blade available for combined light and escape direction indication
- Accessories available for recessed mounting (255mm x 130mm cut out)
- Slave versions available for 24V, 50V, 110V and 230V CBUs and inverters
- Addressable and DALI versions available for all ONTEC S variants



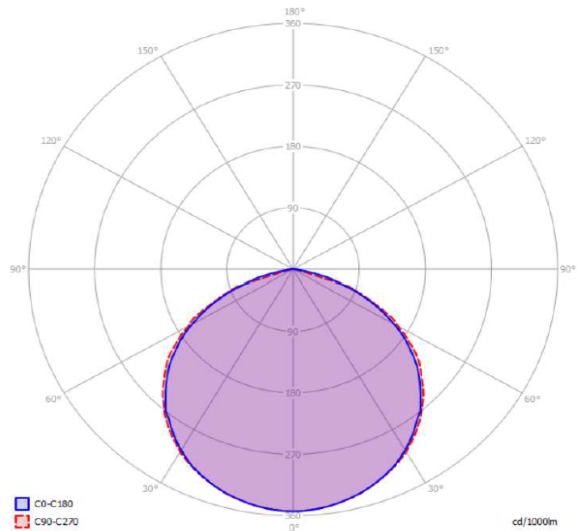
# ONTEC S M1, M2, M5, 301 M/NM ST/AT

IP65 High Output Emergency Bulkhead and Exit Sign with Options for Higher Output and Automatic Test



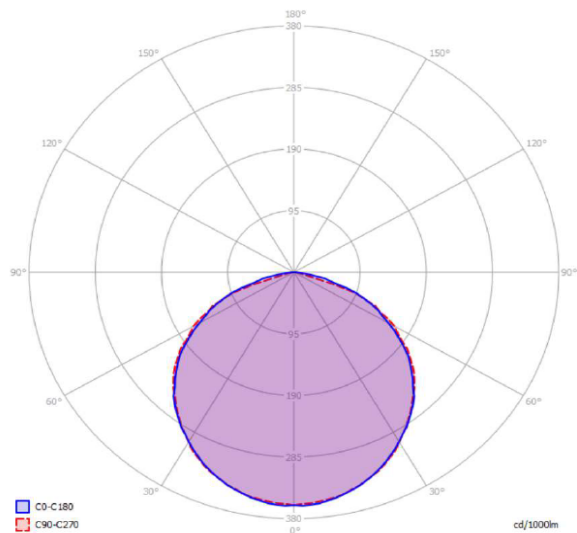
## PHOTOMETRY [m] (M1 301 Universal lens)

Ceiling height	Distance wall - fitting	Distance fitting - fitting
2.5	3.0	8.3
3.0	3.2	9.0
4.0	3.4	10.3
5.0	3.6	11.0
6.0	3.6	11.8
7.0	3.4	12.2
8.0	3.0	12.0
9.0	2.6	11.7
10.0	2.4	11.5



## PHOTOMETRY [m] (M2 301 Universal lens)

Ceiling height	Distance wall - fitting	Distance fitting - fitting
2.5	3.6	9.5
3.0	3.8	10.4
4.0	4.2	11.8
5.0	4.6	13.0
6.0	4.7	13.9
7.0	4.6	14.8
8.0	4.6	15.3
9.0	4.3	15.8
10.0	4.0	16.0



## PHOTOMETRY [m] (M5 301 Universal lens)

Ceiling height	Distance wall - fitting	Distance fitting - fitting
2.5	4.7	11.6
3.0	5.1	13.0
4.0	5.9	14.8
5.0	6.2	16.4
6.0	6.6	17.8
7.0	6.7	19.2
8.0	6.8	20.0
9.0	6.9	20.9
10.0	7.0	22.0



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# ONTEC S20 M1X 60/180 M/NM

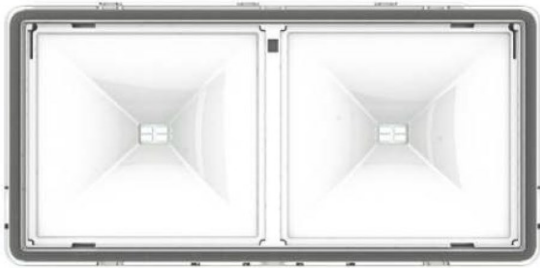
Part Code: RDF-S2.MXSTX060W

Multi-purpose IP65 Compact Emergency Bulkhead and Exit Sign



## PARAMETERS

Application	anti-panic light / exit sign
IP	IP65
IK	08
Version	standard
Power supply	230V AC 50/60 Hz
Temperature range	+5 to +40 °C
Material	white PC
Viewing distance	20m
Duration time	dual 3h / 1h
Operating mode	maintained
Active power	3.6 W
Insulation class	2
Luminous flux	dual 150 lm / 350 lm
Battery	LiFePO <sub>4</sub> /C 3.2V 1.5Ah



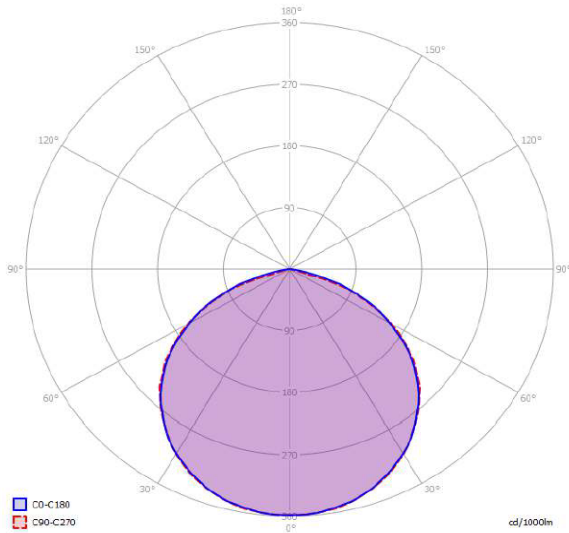
## FEATURES

- Multi-purpose IP65 Compact Emergency Bulkhead Light and Exit Sign
- Ideal CE compliant replacement for standard emergency bulkhead fittings
- 150 lumen output in 3 hour mode
- 350 lumen in 1 hour mode for high risk task area lighting (internal dip switch)
- Universal exit legends included for arrow in up, down, left, right directions
- Long life lithium iron phosphate battery for >5 year life
- Configurable to work in either maintained or non-maintained modes.

# ONTEC S20 M1X 60/180 M/NM

Part Code: RDF-S2.MXSTX060W

Multi-purpose IP65 Compact Emergency Bulkhead and Exit Sign



## PHOTOMETRY [m]

Ceiling height	Distance wall - fitting	Distance fitting - fitting
2.5	3.0	8.3
3.0	3.2	9.0
4.0	3.4	10.3
5.0	3.6	11.0
6.0	3.6	11.8
7.0	3.4	12.2
8.0	3.0	12.0
9.0	2.6	11.7
10.0	2.4	11.5





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# ONTEC S Slaves (24V, 50V, 110V, 240V)

IP65 High Output Emergency Bulkhead and Exit Sign for CBUs



Optional Drop Blade / Flag



## PARAMETERS

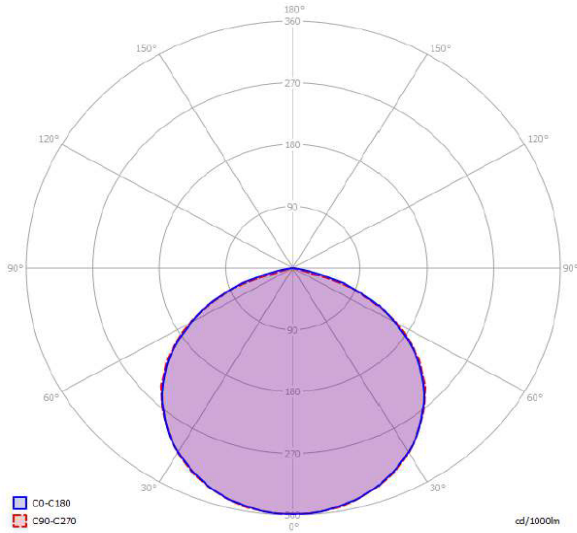
Application	anti-panic light / exit sign
IP	IP65
IK	08
Version	For CBUs and inverters
Power supply	24V, 50V, 110V, 230V AC/DC
Temperature range	-15 to +55 °C
Material	PC (various colours)
Viewing distance	25m exit legend included
Duration time	NA
Operating mode	non-maintained
Active power	3.6 W
Insulation class	2
Luminous flux	141 lm (M1 version)
Battery	none (for central systems)

## FEATURES

- High output IP65 slave bulkhead light and exit sign for DC and AC systems (CBUs / inverters)
- Available in either 24V, 50V, 110V or 230V AC/DC versions
- Universal exit legends included for arrow in up, down, left, right directions
- 5 year warranty
- Suitable for use in very cold or very warm environments (no internal battery)
- Drop legend blade available for combined light and escape direction indication
- Accessories available for recessed mounting (255mm x 130mm cut out)
- M2 and M5 higher light output versions available as well as other optics e.g. for corridors

# ONTEC S Slaves (24V ,50V ,110V ,240V)

IP65 High Output Emergency Bulkhead and Exit Sign for CBUs



## PHOTOMETRY [m] (M1 version)

Ceiling height	Distance wall - fitting	Distance fitting - fitting
2.5	3.0	8.3
3.0	3.2	9.0
4.0	3.4	10.3
5.0	3.6	11.0
6.0	3.6	11.8
7.0	3.4	12.2
8.0	3.0	12.0
9.0	2.6	11.7
10.0	2.4	11.5



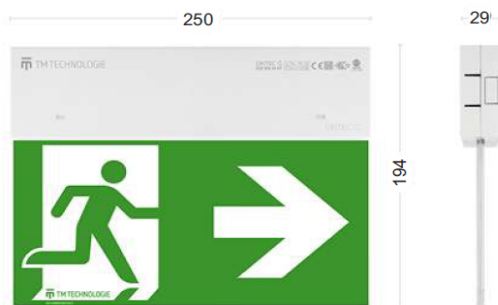


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# ONTEC G E1B 301 M ST W

Part Code: RDF-OG.EB.ST106

Ceiling Mount Dual-Sided Exit Sign with Recessed Option



## PARAMETERS

Standards	EN 60598-1, EN 60598-2-22, EN 61347-1, EN 61347-2-7, EN 61347-2-13, EN 55015, EN 61000-3-2, EN 62031, EN 62471, EN 1838
Warranty	5 Years Battery 2 years
IP	IP20
IK	IK05
Version	ST – Standard manual test
Power supply	210 to 250 V AC 50 to 60 Hz
Temperature range	+10 to 35 °C
Material	PC
Colour	white (also in black and other colours)
Duration time	3 hour
Operating mode	M (maintained / non-maintained)
Maximum light power	1.5 W
Active power	1.6 W
Insulation class	2
Luminance	>150 cd/m <sup>2</sup>
Viewing Distance	25 m
Battery	Ni-Cd HT 3.6V 0.8Ah

## FEATURES

- Auto-test, addressable and DALI versions available for all ONTEC G variants
- Recessing kit available, see RDF website for details





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TM TECHNOLOGIE

## ONTEC E E1B 301 M ST W

Part Code: RDF-OE.EB.ST002

Surface Mount Exit Sign with Fully Recessed Option



### PARAMETERS

Standards	EN 60598-1, EN 60598-2-22, EN 61347-1, EN 61347-2-7, EN 61347-2-13, EN 55015, EN 61000-3-2, EN 62031, EN 62471, EN 1838
Warranty	5 years battery 2 years
IP	IP20
IK	IK05
Version	ST – standard manual test
Power supply	210 to 250 V AC 50 to 60 Hz
Temperature range	+10 to 35 °C
Material	PC
Colour	white (also in black and other colours)
Duration time	3 hour
Operating mode	M (maintained / non-maintained)
Maximum light power	1.5 W
Active power	1.6 W
Insulation class	2
Luminance	>150 cd/m <sup>2</sup>
Viewing Distance	25 m version (larger sizes available)
Battery	Ni-Cd HT 3.6V 0.8Ah

### FEATURES

- Auto-test, addressable and DALI versions available for all ONTEC E variants
- Recessing kit available, see RDF website for details





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# ITECH Z E2 302 M

Part Code: RDF-IZ.E2.ST010

Ceiling Mount Hanging Dual-Sided Exit Sign with Recessed Option



## PARAMETERS

Standards	EN 60598-1, EN 60598-2-22, EN 61347-1, EN 61347-2-7, EN 61347-2-13, EN 55015, EN 61000-3-2, EN 62031, EN 62471, EN 1838
Warranty	5 years battery 3 years
IP	IP65
IK	IK05
Version	standard (available as auto-test)
Power supply	210 to 250 V AC 50 to 60 Hz
Temperature range	+10 to 40 °C
Material	PC
Colour	white
Duration time	3 hour
Operating mode	maintained / non-maintained
Maximum light power	2.7 W
Active power	6.7 W
Insulation class	2
Luminance	>200 cd/m <sup>2</sup>
Viewing Distance	up to 30 m
Battery	LiFePO <sub>4</sub> /C 6.4V 1.5Ah

## FEATURES

- Auto-test, addressable and DALI versions available for all ITECH variants
- Recessing kit available, see RDF website for details







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# ONTEC C M1 301 M AT

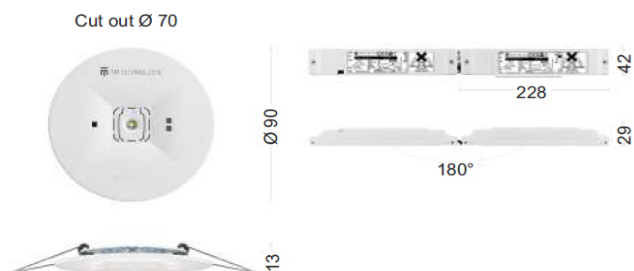
Part Code: RDF-OC.M1.AT005

Recessed 90mm Circular Downlight with Auto-Test and Multiple Options



## PARAMETERS

Standards	EN 60598-1, EN 60598-2-22, EN 61347-1, EN 61347-2-7, EN 61347-2-13, EN 55015, EN 61000-3-2, EN 62031, EN 62471, EN 1838
Warranty	5 years battery 2 years
IP	IP20
IK	IK03
Version	AT – automatic test (self-test)
Power supply	210 to 250 V AC 50 to 60 Hz
Temperature range	+10 to 35 °C
Material	PC
Colour	white (also in black and other colours)
Duration time	3 hour
Operating mode	M (maintained / non-maintained)
Maximum light power	2.7 W
Active power	4.2 W
Insulation class	2
Luminous flux	140 lm
Battery	Ni-Cd HT 3.6V 1.5Ah



## FEATURES

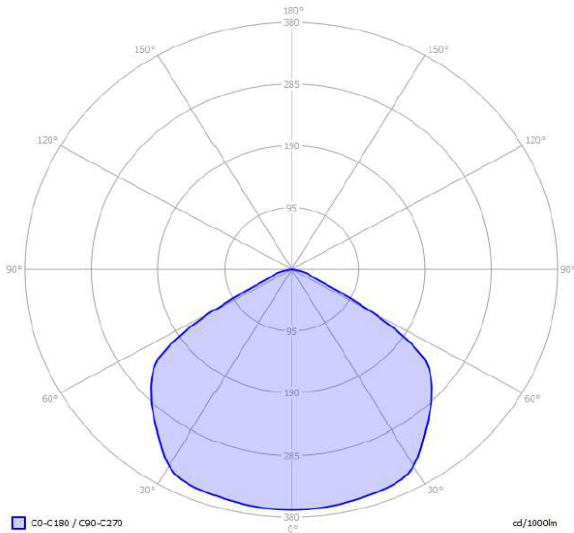
- Standard (no-test), addressable and DALI versions available for all ONTEC C variants
- Multiple options including higher light output and corridor lens available, see RDF website for details



# ONTEC C M1 301 M AT

Part Code: RDF-OC.M1.AT005

Recessed 90mm Circular Downlight with Auto-Test and Multiple Options



## PHOTOMETRY [m]

Ceiling height	Distance wall - fitting	Distance fitting - fitting
2.5	3.2	7.0
3.0	3.5	8.0
4.0	3.9	9.5
5.0	3.9	11.2
6.0	3.7	12.2
7.0	3.4	12.6
8.0	3.3	12.4
9.0	3.0	12.0
10.0	2.8	11.2





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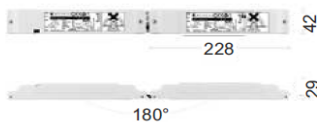
# ONTEC D M1 301 M AT

Part Code: RDF-OD.M1.AT006

Recessed 90mm Square Downlight with Auto-Test and Multiple Options



## PARAMETERS



Standards	EN 60598-1, EN 60598-2-22, EN 61347-1, EN 61347-2-7, EN 61347-2-13, EN 55015, EN 61000-3-2, EN 62031, EN 62471, EN 1838
Warranty	5 years battery 2 years
IP	IP20
IK	IK03
Version	AT – automatic test (self test)
Power supply	210 to 250 V AC 50 to 60 Hz
Temperature range	+10 to 35 °C
Material	PC
Colour	white (also in black and other colours)
Duration time	3 hour
Operating mode	M (maintained / non-maintained)
Maximum light power	2.7 W
Active power	4.2 W
Insulation class	2
Luminous flux	140 lm
Battery	Ni-Cd HT 3.6V 1.5Ah

## FEATURES

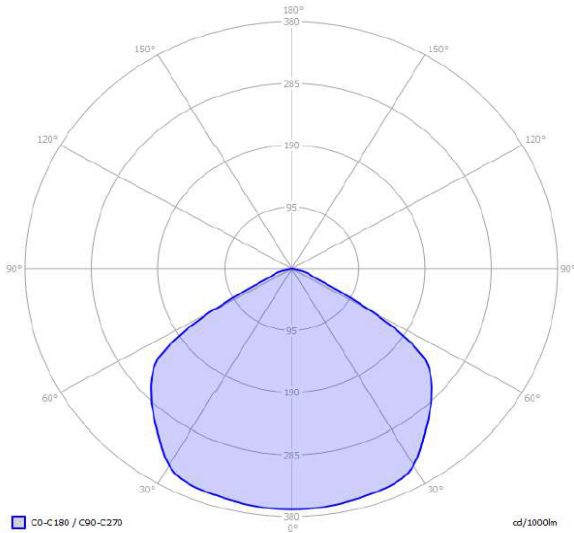
- Versions including standard (no-test), addressable and DALI are available for all ONTEC D variants
- Multiple options including higher light output and corridor lens available, see RDF website for details



# ONTEC D M1 301 M AT

Part Code: RDF-OC.M1.AT006

Recessed 90mm Square Downlight with Auto-Test and Multiple Options



## PHOTOMETRY [m]

Ceiling height	Distance wall - fitting	Distance fitting - fitting
2.5	3.2	7.0
3.0	3.5	8.0
4.0	3.9	9.5
5.0	3.9	11.2
6.0	3.7	12.2
7.0	3.4	12.6
8.0	3.3	12.4
9.0	3.0	12.0
10.0	2.8	11.2





Lighting-Power-Control

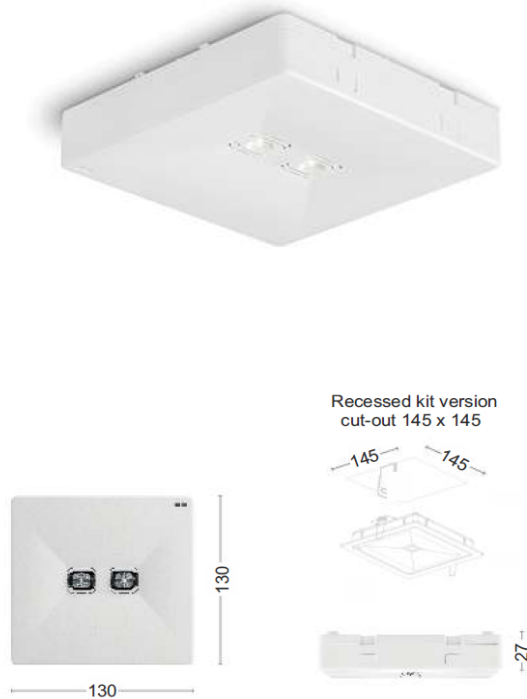
## ONTEC R M1U 301 NM

Part Code: RDF-OR.MU.ST003

Surface-Mount Square Downlight with Multiple Options



### PARAMETERS



Standards	EN 60598-1, EN 60598-2-22, EN 61347-1, EN 61347-2-7, EN 61347-2-13, EN 55015, EN 61000-3-2, EN 62031, EN-62471, EN 1838
Warranty	5 years battery 3 years
IP	IP20
IK	IK03
Version	ST – standard (no auto-test)
Power supply	210 to 250 V AC 50 to 60 Hz
Temperature range	+10 to 35 °C
Material	PC
Colour	white (also in black and other colours)
Duration time	3 hour
Operating mode	NM (non-maintained)
Maximum light power	2.0 W
Active power	1.7 W
Insulation class	2
Luminous flux	158 lm
Battery	LiFePO <sub>4</sub> /C

### FEATURES

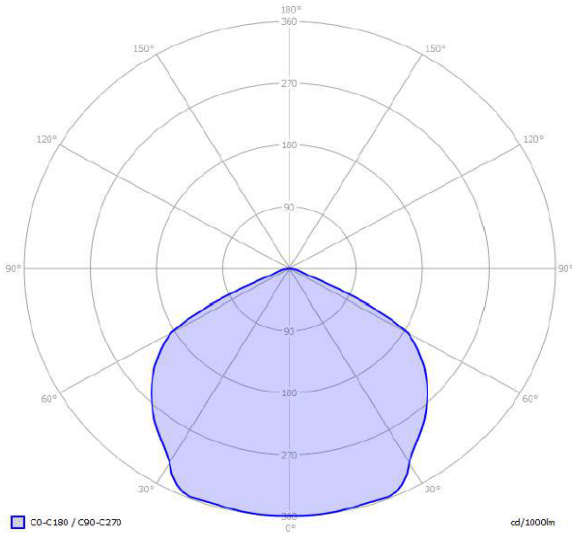
- All ONTEC D versions available with auto-test, addressable and DALI
- Multiple options including higher light output and corridor lens available
- Recessing kit also available, contact us for details.



# ONTEC R M1U 301 NM

Part Code: RDF-OR.MU.ST003

Surface-Mount Square Downlight with Multiple Options



## PHOTOMETRY [m]

Ceiling height	Distance wall - fitting	Distance fitting - fitting
2.5	3.4	7.7
3.0	3.6	8.8
4.0	3.8	10.5
5.0	4.0	11.8
6.0	3.8	12.5
7.0	3.7	12.9
8.0	3.6	13.2
9.0	3.4	13.0
10.0	3.1	12.5



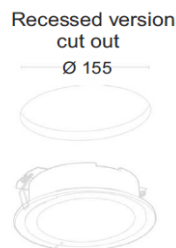


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# ITECH M2 302 M AT

Part Code: RDF-IT.M2.AT006

Surface-Mount 170mm Round Downlight with Auto-Test



## PARAMETERS

Standards	EN 60598-1, EN 60598-2-22, EN 61347-1, EN 61347-2-7, EN 61347-2-13, EN 55015, EN 61000-3-2, EN 62031, EN 62471, EN 1838
Warranty	5 years battery 2 years
IP	IP65
IK	IK06
Version	AT – automatic test (self-test)
Power supply	210 to 250 V AC 50 to 60 Hz
Temperature range	+10 to 40 °C
Material	PC
Colour	white (also in black and other colours)
Duration time	3 hour
Operating mode	M (maintained / non-maintained)
Maximum light power	2.0 W
Active power	6.4 W
Insulation class	2
Luminous flux	270 lm
Battery	LiFePO <sub>4</sub> /C 6.4V 1.5Ah

## FEATURES

- ITECH versions also available including standard (no-test), addressable and DALI
- Multiple options including higher light output and corridor lens available
- Recessing kit also available, contact us for details

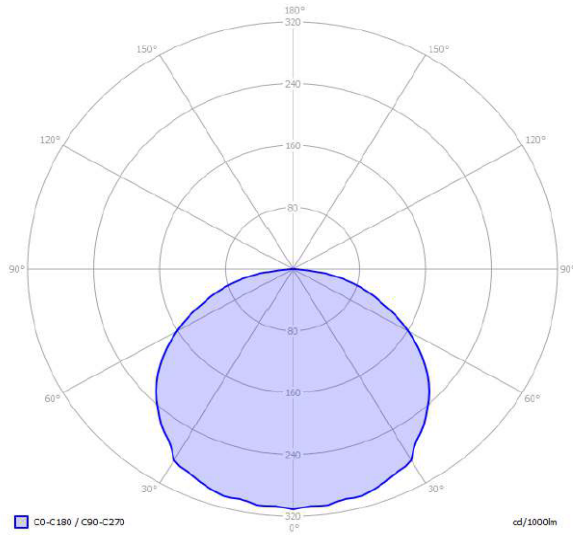




# ITECH M2 302 M AT

Part Code: RDF-IT.M2.AT006

Surface-Mount 170mm Round Downlight with Auto-Test



## PHOTOMETRY [m]

Ceiling height	Distance wall - fitting	Distance fitting - fitting
2.5	4.0	9.3
3.0	4.2	10.5
4.0	4.5	12.0
5.0	4.7	13.5
6.0	4.9	14.4
7.0	4.8	15.0
8.0	4.8	15.7
9.0	4.7	16.0
10.0	4.5	16.2





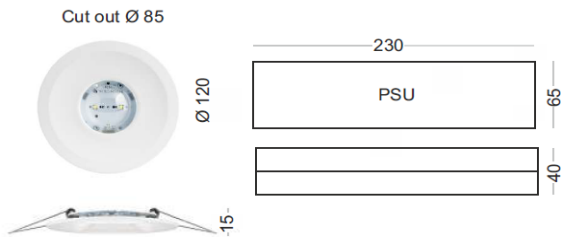


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# RINO M1 301 M AT

Part Code: RDF-RN.M1.AT076

Recessed 120mm Round Downlight with Auto-Test



## PARAMETERS

Standards	EN 60598-1, EN 60598-2-22, EN 61347-1, EN 61347-2-7, EN 61347-2-13, EN 55015, EN 61000-3-2, EN 62031, EN 62471, EN 1838
Warranty	5 years battery 2 years
IP	IP44/20
IK	IK08
Version	AT – automatic test (self-test)
Power supply	210 to 250 V AC 50 to 60 Hz
Temperature range	+10 to 40 °C
Material	PC + Metal
Colour	white (also in black and other colours)
Duration time	3 hour
Operating mode	M (maintained / non-maintained)
Maximum light power	3.2 W
Active power	4.0 W
Insulation class	2
Luminous flux	146 lm
Battery	Ni-Cd HT 3.6V 1.5Ah

## FEATURES

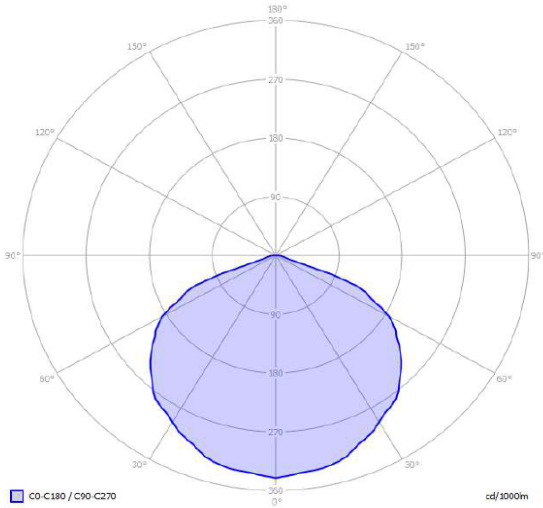
- Rino versions also available including standard (no-test), addressable and DALI
- Multiple options including higher light output and corridor lens available, contact us for details



# RINO M1 301 M AT

Part Code: RDF-R.M1.AT006

Recessed 120mm Round Downlight with Auto-Test



## PHOTOMETRY [m]

Ceiling height	Distance wall - fitting	Distance fitting - fitting
2.5	3.2	7.0
3.0	3.5	8.0
4.0	3.9	9.5
5.0	3.9	11.2
6.0	3.7	12.2
7.0	3.4	12.6
8.0	3.3	12.4
9.0	3.0	12.0
10.0	2.8	11.2





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TM TECHNOLOGIE

## ONTEC S Drop Blade (Flag)

Part Code: RDF-AKC.OS002

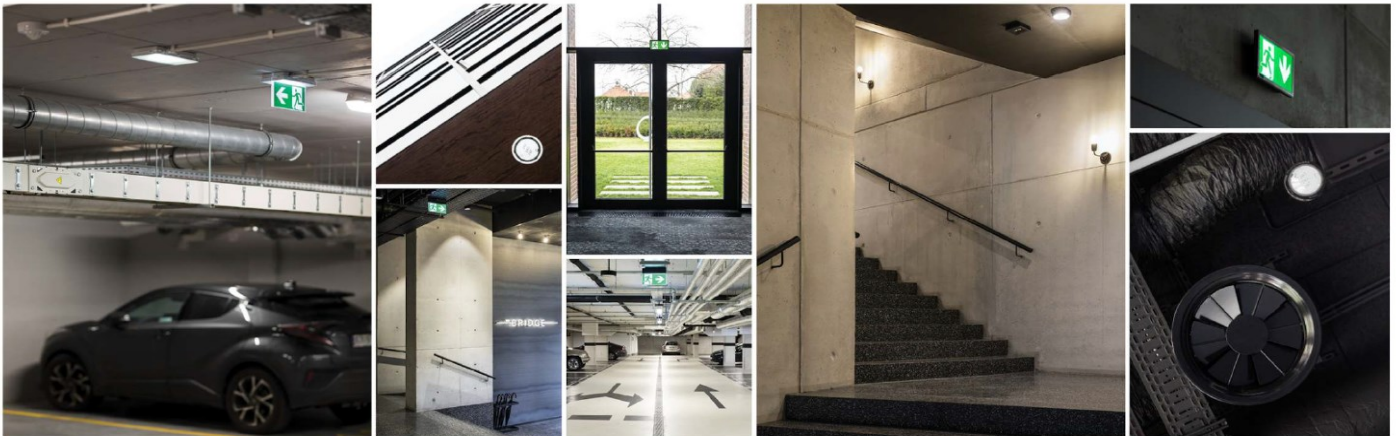
Diffuser/Flag with Metal Clips and Dual-Sided Legends

### APPLICATION



#### DEDICATED TO FITTINGS:

ONTEC S C1, C2; ONTEC S F1, F2; ONTEC S M1, M2, M5; ONTEC S W1, W2;  
ONTEC S |A; ONTEC S C1, C2; ONTEC S F1, F2; ONTEC S M1, M2, M5;  
ONTEC S W1, W2.





Lighting-Power-Control

TM TECHNOLOGIE

# ONTEC S Recessing Kit

Part Code: RDF-AKC.OS001

Recessing Kit with Metal Clips and Screws

## APPLICATION



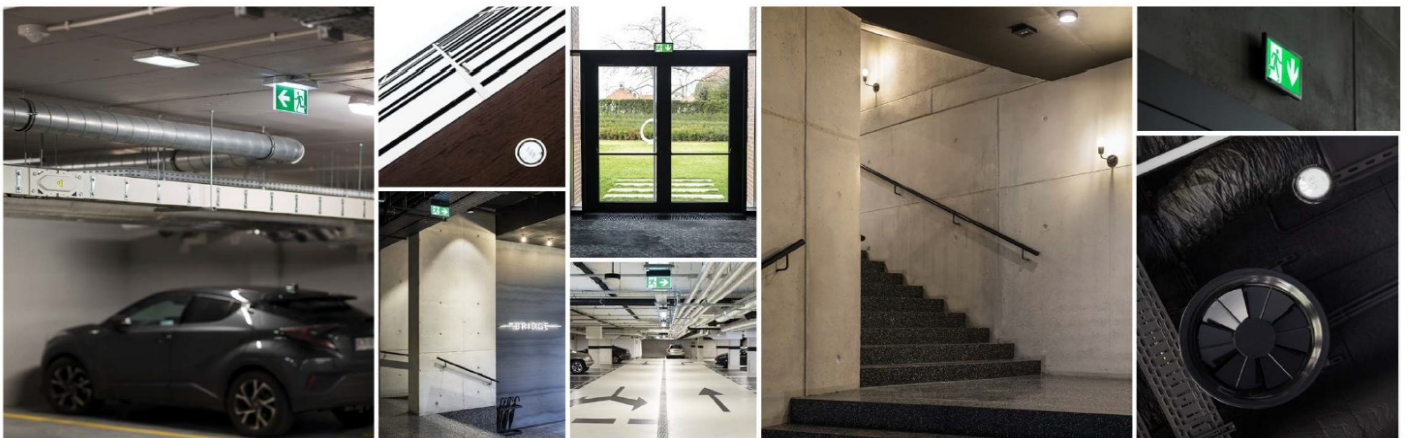
### DEDICATED TO FITTINGS:

ONTEC S C1, C2; ONTEC S F1, F2; ONTEC S M1, M2, M5; ONTEC S W1, W2;  
ONTEC S |A; ONTEC S C1, C2; ONTEC S F1, F2; ONTEC S M1, M2, M5;  
ONTEC S W1, W2; ONTEC S20\*.

Dimensions for **ONTEC S\*** Recessing - (255mm x 130mm cut out)



\* See specific datasheet for cut-out dimensions for other models - e.g. ONTEC S20)







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## ONTEC G Recessing Kit

Part Code: RDF-AKC.OG001

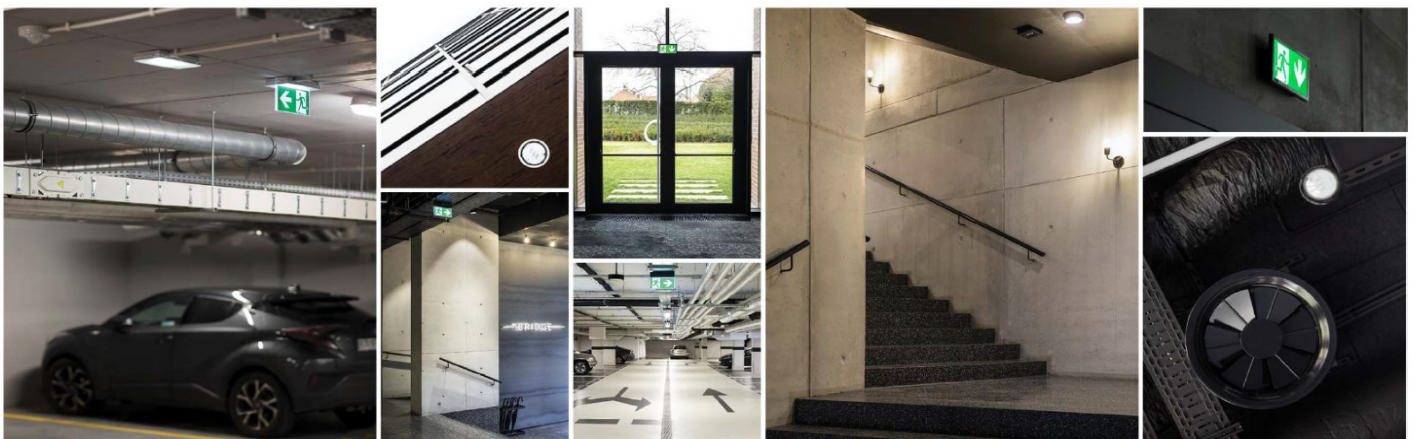
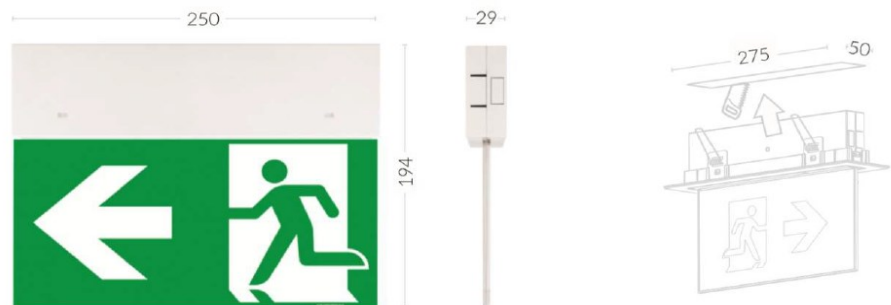
Recess Mount Kit with Metal Clips and Screws

### APPLICATION



- Designed for recess mounting in a ceiling
- The kit includes a fascia panel and all elements required for installation
- Compatible with all ONTEC G emergency fitting models

Measurements for ONTEC G Recessing - (275mm x 50mm cut out)



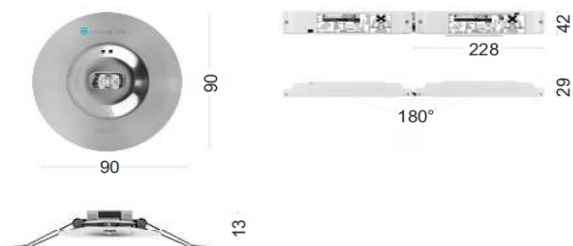


Lighting-Power-Control

# PRIMO C C1 302 M AT

Part Code: RDF-PC.C1.AT03W

Metal Recessed 90mm Round Corridor Downlight with Auto-Test



## PARAMETERS

Standards	EN 60598-1, EN 60598-2-22, EN 61347-1, EN 61347-2-7, EN 61347-2-13, EN 55015, EN 61000-3-2, EN 62031, EN 62471, EN 1838
Warranty	5 years battery 3 years
IP	IP20
IK	IK03
Version	AT – automatic test (self-test)
Power supply	210 to 250 V AC 50 to 60 Hz
Temperature range	+10 to 35 °C
Material	metal with PC PSU
Colour	polished or satin steel
Duration time	3 hour
Operating mode	M (maintained / non-maintained)
Maximum light power	3 W
Active power	7 W
Insulation class	2
Luminous flux	260 lm
Battery	LiFePO <sub>4</sub> /C 6.4V 1.5Ah

## FEATURES

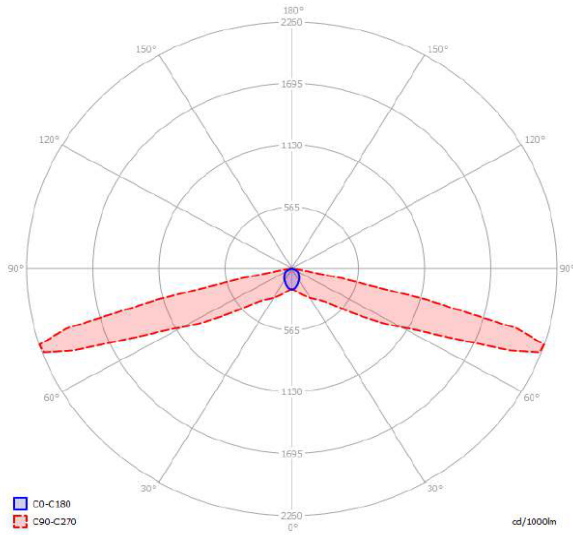
- Versions including standard (no-test), addressable and DALI are available for all PRIMO C variants
- Optional higher light output corridor version available, contact us for details



# PRIMO C C1 302 M AT

Part Code: RDF-PC.C1.AT03W

Metal Recessed 90mm Round Corridor Downlight with Auto-Test



## PHOTOMETRY [m]

Ceiling height	Distance wall - fitting	Distance fitting - fitting
2.5	9.2	20.2
3.0	10.2	23.0
4.0	11.7	28.0
5.0	10.9	31.0
6.0	5.6	29.0
7.0	3.6	25.0
8.0	2.7	20.5
9.0		
10.0		



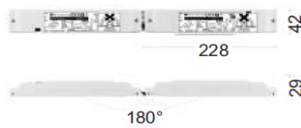


Lighting-Power-Control

# PRIMO D M2 302 M AT

Part Code: RDF-PD.M2.AT03W

Metal Recessed 90mm Square High-Output Downlight with Auto-Test



## PARAMETERS

Standards	EN 60598-1, EN 60598-2-22, EN 61347-1, EN 61347-2-7, EN 61347-2-13, EN 55015, EN 61000-3-2, EN 62031, EN 62471, EN 1838
Warranty	5 years battery 3 years
IP	IP20
IK	IK03
Version	AT – automatic test (self test)
Power supply	210 to 250 V AC 50 to 60 Hz
Temperature range	+10 to 35 °C
Material	metal with PC PSU
Colour	polished steel
Duration time	3 hour
Operating mode	M (maintained / non-maintained)
Maximum light power	3 W
Active power	7 W
Insulation class	2
Luminous flux	288 lm
Battery	LiFePO <sub>4</sub> /C 6.4V 1.5Ah

## FEATURES

- Versions including standard (no-test), addressable and DALI are available for all PRIMO D variants
- Multiple options including higher light output and corridor lens available, see RDF website for details

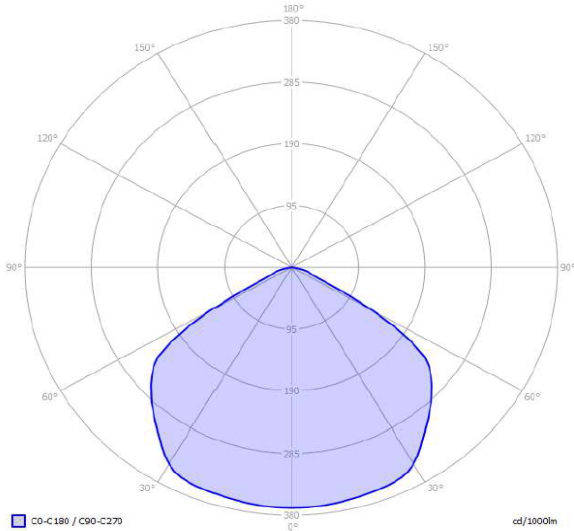




# PRIMO D M2 302 M AT

Part Code: RDF-PD.M2.AT03W

Metal Recessed 90mm Square High-Output Downlight with Auto-Test



## PHOTOMETRY [m]

Ceiling height	Distance wall - fitting	Distance fitting - fitting
2.5	3.4	7.8
3.0	4.0	8.8
4.0	4.8	10.9
5.0	5.3	12.2
6.0	5.4	14.0
7.0	5.4	15.2
8.0	5.3	16.0
9.0	5.3	17.0
10.0	5.0	17.5

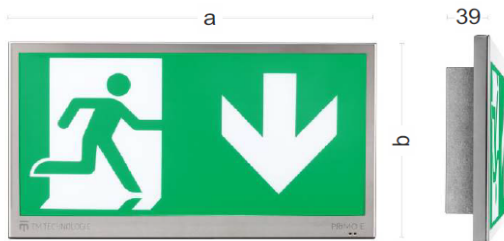
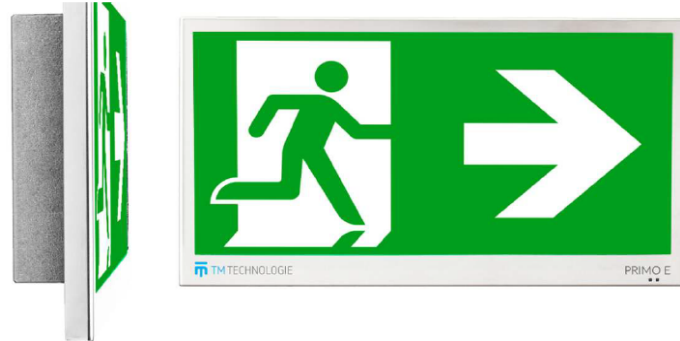




Lighting-Power-Control

## PRIMO E 40E to 80E

Multiple Size Metal Surface Mount Exit Box



		a (mm)	b (mm)
PRIMO E	30	322	184
PRIMO E	40	422	234
PRIMO E	60	622	334
PRIMO E	80	822	434

### PARAMETERS

Standards	EN 60598-1, EN 60598-2-22, EN 61347-1, EN 61347-2-7, EN 61347-2-13, EN 55015, EN 61000-3-2, EN 62031, EN 62471, EN 1838
Warranty	5 years battery 3 years
IP	IP20
IK	IK05
Version	standard or auto-test
Power supply	210 to 250 V AC 50 to 60 Hz
Temperature range	+10 to 35 °C
Material	metal
Colour	polished steel, satin steel or black
Duration time	3 hours
Operating mode	M (maintained / non-maintained)
Maximum light power	1.4 W to 3.6 W
Active power	5.6 W to 7.9W
Insulation class	1
Luminance	>150 cd/m <sup>2</sup>
Viewing Distance	30, 40, 60 and 80m versions
Battery	long life; LiFePO <sub>4</sub> /C

### FEATURES

- Four different sizes available (see table above)
- Auto-test (self-test), addressable and DALI versions available for all PRIMO E variants
- Recessing kit available, see RDF website for details



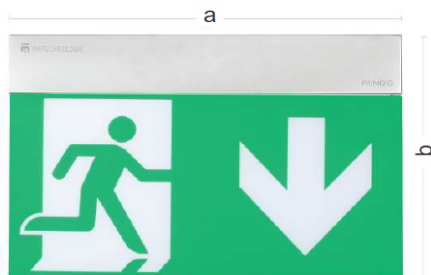


Lighting-Power-Control

**TM** TECHNOLOGIE

## PRIMO G 30 and 40

Multiple Size Metal Ceiling / Wall Mount Exit Sign



39



		a (mm)	b (mm)
PRIMO G	30	301	216
PRIMO G	40	401	269

### PARAMETERS

Standards	EN 60598-1, EN 60598-2-22, EN 61347-1, EN 61347-2-7, EN 61347-2-13, EN 55015, EN 61000-3-2, EN 62031, EN 62471, EN 1838
Warranty	5 years battery 3 years
IP	IP20
IK	IK05
Version	standard or auto-test
Power supply	210 to 250 V AC 50 to 60 Hz
Temperature range	+10 to 35 °C
Material	metal
Colour	polished steel, satin steel or black
Duration time	3h
Operating mode	M (maintained / non-maintained)
Active power	4.9 W to 6.3 W
Insulation class	1
Luminance	>200 cd/m <sup>2</sup>
Viewing Distance	30 or 40 m versions
Battery	long life; LiFePO <sub>4</sub> /C

### FEATURES

- Two sizes available (see table above)
- Auto-test (self-test), addressable and DALI versions available for all PRIMO E variants
- Recessing kit available, see RDF website for details





Lighting-Power-Control

TM TECHNOLOGIE

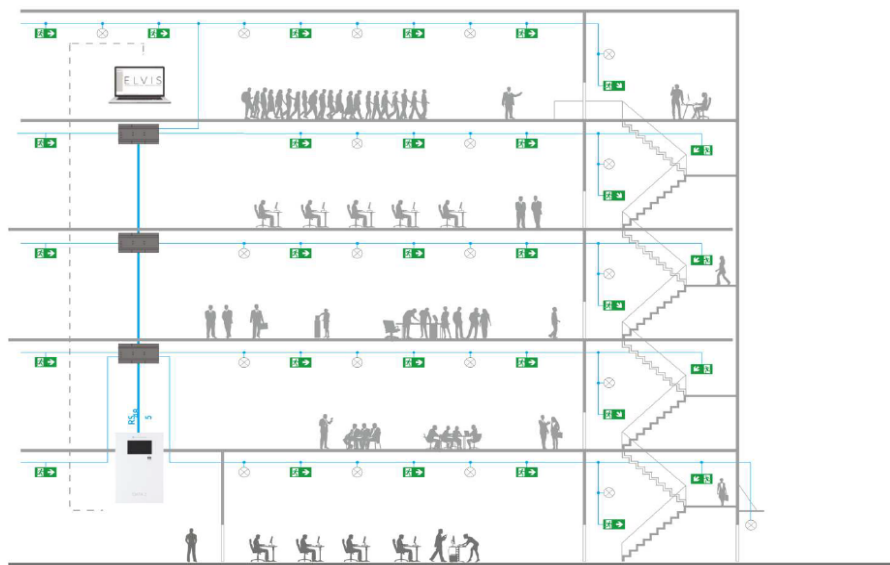
# DATA 2

Self-contained Addressable System



## PARAMETERS

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



Central Station



ELVIS/BMS/SCADA



# DATA 2

Self-contained Addressable System

## SYSTEM COMPONENTS

### CENTRAL STATION



Multifunctional device with touch panel. Controls emergency luminaires. Possibility to download reports on the flash drive and preview the system status through the website.

Dimensions (H x W x D)	485 x 302 x 70 mm
Material	blacha malowana proszkowo, RAL 9003
Protection degree	IP20
Insulation class	I

### I/O MODULE



Device enabling control of emergency lighting groups, dedicated to DATA 2 and TM-CB emergency lighting systems. 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 versions are used to control the night lighting, fire-emergency lighting groups, fire scenarios and have 8 inputs. The output module (OUT) is used to provide the system status. It has 8 potential-free outputs.

IN SW	potential-free input
IN 24	24 V voltage detection
IN 230	230 V voltage detection
OUT	potential-free output 400 V AC / 250 V DC, max. 6 A

### C-BRIDGE 2

Intermediary device for communication between the controller and DATA 2 series addressable devices. The control panel is equipped with one splitter as a standard, but optionally it is possible to connect a second signal splitter, thus increasing the maximum possible number of luminaires to 4096.



C-BRIDGE 2 DATA 2	With battery for mounting in dedicated housings.
C-BRIDGE 2 DATA 2 DIN	With battery for DIN rail mounting in switching stations and shafts.
C-BRIDGE BOX 2	Version built in the C-BRIDGE BOX 2.
Supply voltage	22-25 V DC
Communication speed	RS-485: 19200 bit/s
Bus voltage	15-25 V
Bus communication speed	5 kbit/s
Insulation class	III

### WIRING



Communication with controller	RS 485 port
Communication with addressable devices	TM-BUS 2-wire data bus (without polarity) - communications cable for example: YTKSYekw 1 x 2 x 0.8 mm <sup>2</sup> or other wires complying with the parameters: length: max. up to 1,000 m operating temperature: -15 °C to +70 °C resistance: max. 75 Ω/km conductor capacity: max. 120 nF/km
Communication with ELVIS, WWW, MODBUS TCP	LAN





Lighting-Power-Control

TM TECHNOLOGIE

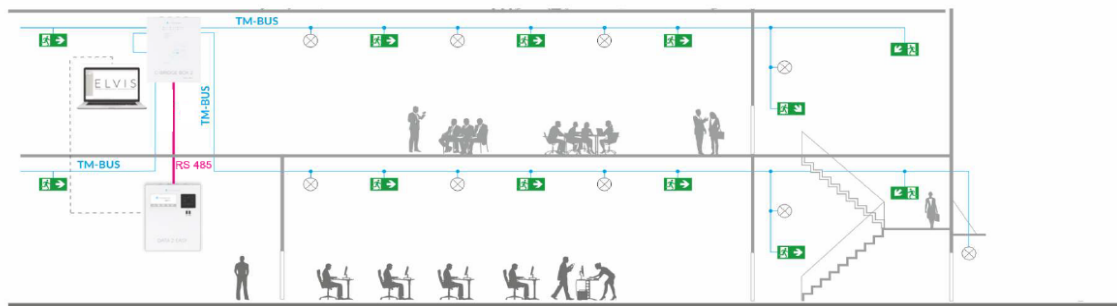
## DATA 2 EASY

Self-contained Addressable System



### PARAMETERS

Maximum number of emergency fittings / channel	64
Maximum number of communication channels	4
Maximum number of C-Bridge 2 signal distributor	2
Maximum number of emergency fittings in the system	512



Central Station

ELVIS/BMS/SCADA





# DATA 2 EASY

Self-contained Addressable System

## SYSTEM COMPONENTS

### CENTRAL STATION



Multifunctional device. Controls emergency luminaires. Possibility to download reports on the flash drive and preview the system status through the website.

Dimensions (H x W x D)	307 x 230 x 59 mm
Material	powder coated steel
Protection degree	IP20
Insulation class	I

### C-BRIDGE 2



Intermediary device for communication between the controller and DATA 2 series addressable devices. The control panel is equipped with one splitter as a standard, but optionally it is possible to connect a second signal splitter, thus increasing the maximum possible number of luminaires to 4096.

C-BRIDGE 2 DATA 2	With battery for mounting in dedicated housings.
C-BRIDGE 2 DATA 2 DIN	With battery for DIN rail mounting in switching stations and shafts.
C-BRIDGE BOX 2	Version built in the C-BRIDGE BOX 2.
Supply voltage	22-25 V DC
Communication speed	RS-485: 19200 bit/s
Bus voltage	15-25 V
Bus communication speed	5 kbit/s
Insulation class	III

### WIRING



Communication with controller	RS 485 port
Communication with addressable devices	TM-BUS 2-wire data bus (without polarity) - communications cable for example: YTKSYekw 1 x 2 x 0.8 mm <sup>2</sup> or other wires complying with the parameters: length: max. up to 1,000 m operating temperature: -15 °C to +70 °C resistance: max. 75 Ω/km conductor capacity: max. 120 nF/km
Communication with ELVIS, WWW, MODBUS TCP	LAN



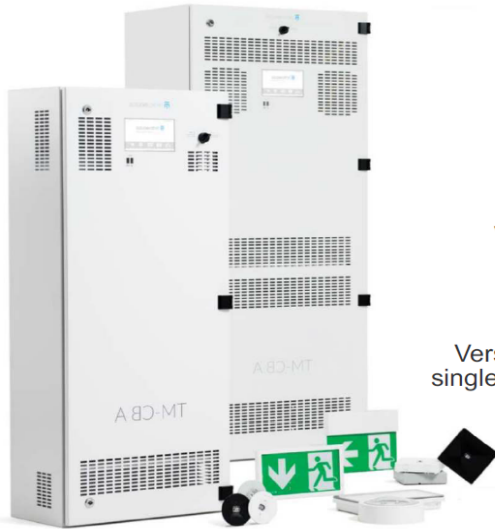


Lighting-Power-Control

TM TECHNOLOGIE

# TM-CB A

Addressable DC Central Battery System



## PARAMETERS

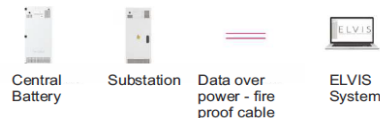
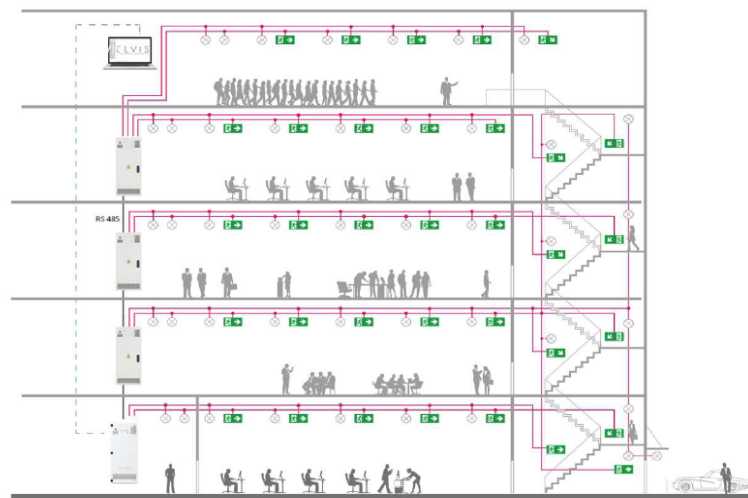
Version 1: Basic monitoring of circuits only

Only the current of individual circuits is monitored. The system informs the user about any fault occurrence, giving the circuit number on which the failure occurred.

Version 2: Extended monitoring of single luminaires (fully addressable)

Each luminaire has a built-in addressable module that monitors the current. Therefore the system can inform the user exactly which luminaire is a problem. Due to the use of addressed modules it is possible to configure the operation mode (i.e. maintained / non-maintained).

Maximum number of emergency fittings/ circuit	20
Maximum number of circuits	24
Maximum number of substations (63) + station (1)	64
Maximum number of emergency fittings in the system	30720







Lighting-Power-Control

# TM-CB A

Addressable DC Central Battery System

## SYSTEM COMPONENTS



### STATION

A control unit with a touch panel. The station monitors the correct operation of emergency lighting devices. It determines their status through automatic function and autonomy tests and by checking the accuracy 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.

Material	Powder coated steel
Insulation class	
S1 : 1208 x 501 x 321 mm	≤ 1560 W / 7 -12 Ah
S2 : 1253 x 601 x 412 mm	≤ 2330 W / 22 Ah
S3: 1553 x 646 x 502 mm	≤ 4280 W / 33 Ah
Power supply	230 V AC / 50Hz
Nominal voltage	216 V DC
Batteries	Maintenance-free lead-acid batteries, service life upto 12 years.
Charging	CC/CV
Power	500 VA / circuit (max. 2.5 A)
Circuit operation	AC - mainmode / DC - battery mode
Mode	Flexible programming of individual circuits: mains, out-of-the-box, mixed.

### SUBSTATION

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 accuracy. The TM-CB A Central Battery System enables connection of up to 63 substations.



### CABLING



RS 485 port	connection between station/substation with I/O module
RS 485 port	connection between station with substation
LAN	communication with vizualization ELVIS / BMS
cross-section 2.5 mm <sup>2</sup>	AC main supply
cross-section 3 x 1.5 - 2.5 mm <sup>2</sup> , fireproof, maximum circuit length 200 m	AC/DC for luminaires





Lighting-Power-Control

# TM-CB A

Addressable DC Central Battery System

## SYSTEM COMPONENTS (cont..)

### I/O MODULE



Device enabling control of emergency lighting groups, dedicated to DATA 2 and TM-CB emergency lighting systems. 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 versions are used to control the night lighting, fire-emergency lighting groups, fire scenarios and have 8 inputs. The output module (OUT) is used to provide the system status. It has 8 potential-free outputs.

IN SW	potential-free input
IN 24	24 V voltage detection
IN 230	230 V voltage detection
OUT	potential-free output 400 V AC / 250 V DC, max. 6 A

### CIRCUIT CONTROLLER



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

### COORDINATOR



Controller of the entire station. Performs all control and monitoring functions. LEDs on the front panel indicate the correct operation of the station in real time. It is responsible for: measurement of battery charge and discharge current, battery voltage, battery symmetry voltage, power supply voltage, internal system temperature.

### 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.



**RDF**



**Lighting-Power-Control**

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High Peak, SK23 ORJ**

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