

## Low Power Systems and Central Power Supply Systems Series MidiControl MD



NLDCM42MID



Mobil Code

### Schrack-Info

The MidiControl is a preconfigured CPS system with monitoring of individual luminaires without additional wiring, freely programmable circuits, and 5-year logging (test log) for connecting emergency and safety lighting with LED, fluorescent or halogen lamps. Available with either one or two chargers with 2.5 A. The largest version is equipped with 55 Ah batteries and delivers an output of roughly 5300 W for 1 hour, 2300 W for 3 hours or 1000 W for 8 hours.

The circuit module supplies safety and exit sign luminaires connected to the system with power. Each output can be programmed for circuit monitored systems or for monitoring individual luminaires. Combined operation is also possible. The MidiControl can hold up to 16 DCM modules DCM42 for up to 32 circuits with up to 4 A/864 VA each. Alternatively, it is possible to use DCM12E (2 x 1,1 A/2 x 250 VA) circuit modules in combination with "EL" luminaires for central switching support for single luminaires (for details see chapter "Central Switching of Individual Luminaires").

Each module is designed for 2 output circuits with up to 20 luminaires each. Each circuit can be programmed as maintained, non-maintained, switched maintained or staircase lighting. Non-maintained and exit sign luminaires can be operated simultaneously. In total up to 640 emergency or safety luminaires can be supplied with power.

The built-in web interface with visualisation software allows to set up and monitor the system and the connected lights very comfortably from any networked PC. The installed luminaires can be displayed as icons on a blueprint of the building.

Up to 32 systems can be networked via TCP/IP. This allows a total of 1024 circuits or 20,480 luminaires to be connected and monitored.

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### Features

- Centralised power supply system according to the ÖVE/ÖNORM EN 50171 standard for emergency and safety lighting systems according to ÖVE/ÖNORM EN 50172, ÖVE/ÖNORM E 8002-1 and ÖVE E 8101.
- With an automatic test system according to ÖVE/ÖNORM EN 62034 for regular testing of every connected luminaire
- Microprocessor-based function control system
- Test results accessible for 5 years
- Large backlit LCD display with plain text notifications
- Switching between multiple languages
- Passwort protected
- Pre-programmed support address
- Easy and intuitive programming with 8 buttons
- External PC keyboard can be connected for faster system configuration (USB)
- Memory card (MultiMediaCard) for software updates
- Ethernet interface
- Control and monitoring via web browser
- Display of luminaire position and status in a building floor plan
- Freely programmable output circuits
- Up to 6 control inputs can be freely assigned to each circuit
- Monitoring and switching of individual light fittings without additional wiring
- Adaptive current monitoring for each load circuit
- Selective isolation testing of the load circuits
- Up to 32 load circuits per 19" rack
- Circuit modules DCM42 (2x4 A/ 2x860 VA) included by default
- System compatible with circuit module inserts NLDCM12E for centrally controlled individually switchable luminaires
- Battery charger with IUTQ characteristics to maximise battery life
- External modules, such as line monitors, etc., can be connected and programmed with a bus system
- Integrated plinth
- Incl. fused power outlet for maintenance purposes
- TÜV Rheinland certified - ID: 1111212721

Integrated light switch monitoring module SAM:

- 8 terminal wired light switch inputs (24-250 V DC, 220/230 V AC) for switching of the circuits in mains powered mode
- Terminal wired power supply for internal connection
- 3 programmable switching modes

Integrated IO module:

- 7 relay outputs, 230 V / 6 A, floating CO contacts
- 4 galvanically isolated switching inputs (24-250 V DC, 220/230 V AC), selectable polarity, programmable function
- Internal CAN bus connection

Integrated CCIF - Critical Circuit Interface Module:

- Closed current loop monitoring for short circuit and interruption
- Internal overvoltage and overcurrent protection

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### Circuit Modules

















Type of mounting:	Free-standing		
Body:	Sheet steel RAL 7035		
Dimensions (HxWxD):	1950x600x450 mm Incl. plinth		
Degree of protection/appliance class:	IP20 / I		
Cable inlet:	Top		
Mains connection:	3 x 230 V AC ±10% 50/60 Hz		
Output voltage:	230 V AC / 216 V DC		
Output circuits:	Max. 32 circuits with switching between maintained or non-maintained mode for each circuit		
Battery (not included)	Maintenance-free, sealed lead acid battery OGiV, OGi or OPzV		
Max. power rating AC:	8140 VA		
Max. power rating DC: *	1 h	3 h	8 h
with 17 Ah battery (LPS)	6.94 A / 1500 W	2.31 A / 500 W	0.86 A / 185 W
with 26 Ah battery	12.4 A / 2678 W	5.68 A / 1227 W	2.46 A / 531 W
with 33 Ah battery	15.84 A / 3421 W	6.53 A / 1411 W	2.94 A / 635 W
with 40 Ah battery	18.8 A / 4061 W	7.55 A / 1630 W	3.33 A / 719 W
with 45 Ah battery	21.2 A / 4579 W	8.72 A / 1884 W	3.99 A / 862 W
with 55 Ah battery	29.3 A / 6324 W	12.03 A / 2598 W	5.53 A / 1194 W
Power loss no load mains operation:	NLMD0100: boost charge: 90 W, trickle charge: 65 W NLMD0200: boost charge: 140 W, trickle charge: 90 W		
Power loss no load battery operation:	40 W		
Mains fuse:	20 A		
Recommended back-up fuse:	35 A		
Recommended connection cross-sections:	Mains cables: 2.5 -16 mm² rigid Load circuits: 1.5-2.5 mm² rigid		
Weight:	NLMD0100: 105 kg, NLMD0200: 110 kg (without batteries)		
	Battery set 216 V DC (18 x 12 V / 17 Ah):	99 kg	
	Battery set 216 V DC (18 x 12 V / 26 Ah):	166 kg	
	Battery set 216 V DC (18 x 12 V / 33 Ah):	175 kg	
	Battery set 216 V DC (18 x 12 V / 40 Ah):	248 kg	
	Battery set 216 V DC (18 x 12 V / 45 Ah):	263 kg	
	Battery set 216 V DC (18 x 12 V / 55 Ah):	310 kg	
Permitted ambient temperature:	+10° to +35°C		

\*) Sum of all load circuits, incl. 25% battery ageing reserve

### Features

Type:	Fusing:	Max. load per module:
DCM12E	4 x F5 A	1 A / 2 x 300 VA
DCM32	4 x F5 A	3 A / 2 x 650 VA
DCM42	4 x F6.3 A	4 A / 2 x 860 VA

## Low Power Systems and Central Power Supply Systems Series MidiControl MD

DESCRIPTION	AVAILABLE	ORDER NO.
<b>Low power supply systems (must be equipped with a 17 Ah battery set)</b>		
CPS system MidiControl charger: 2.5 A, max. 32 circuits (without circuit modules and batteries)		NLMD0100
<b>Central power supply systems</b>		
CPS system MidiControl charger: 2.5 A, max. 32 circuits (without circuit modules and batteries)		NLMD0100
CPS system MidiControl charger: 5 A, max. 32 circuits (without circuit modules and batteries)		NLMD0200
<b>Required accessories for low power systems</b>		
Slide-in circuit module 19" 2 x 1 A/300 VA – fuse 4xF5 A, for emergency luminaires that can be individually switched from a central unit NL...EL, NL...E		NLDCM12E
Slide-in circuit module 19" 2 x 3 A/650 VA – fuse 5 A combined operation M/NM		NLDCM32
Slide-in circuit module 19" 2 x 4 A/860 VA – fuse 6.3 A combined operation M/NM		NLDCM42
Battery set 216 V 18 pcs. Longlife OGiV 12 V/17 Ah (C20) incl. connectors		NLBAS017
<b>Required accessories for central power supply systems</b>		
Slide-in circuit module 19" 2 x 1 A/300 VA – fuse 4xF5 A, for emergency luminaires that can be individually switched from a central unit NL...EL, NL...E		NLDCM12E
Slide-in circuit module 19" 2 x 3 A/650 VA – fuse 5 A combined operation M/NM		NLDCM32
Slide-in circuit module 19" 2 x 4 A/860 VA – fuse 6.3 A combined operation M/NM		NLDCM42
Battery set 216 V 18 pcs. Longlife OGiV 12 V/17 Ah (C20) incl. connectors		NLBAS017
Battery set 216 V 18 pcs. Longlife OGiV 12 V/26 Ah (C20) incl. connectors		NLBAS026
Battery set 216 V 18 pcs. Longlife OGiV 12 V/30 Ah (C20) incl. connectors		NLBAS028
Battery set 216 V 18 pcs. Longlife OGiV 12 V/34 Ah (C20) incl. connectors		NLBAS033
Battery set 216 V 18 pcs. Longlife OGiV 12 V/42 Ah (C20) incl. connectors		NLBAS040
Battery set 216 V 18 pcs. Longlife OGiV 12 V/47 Ah (C20) incl. connectors		NLBAS045
Battery set 216 V 18 pcs. Longlife OGiV 12 V/61 Ah (C20) incl. connectors		NLBAS055
<b>Optional accessories</b>		
Plexiglass cover lockable for MidiControl		NLPLXMD
Three-phase mains monitor with bus connection		NLMCLM
Three-phase power supply monitor PC230		NLPC2300
Signalling panel with LCD plain text display and bus connection		NLMCT15
Signalling panel with LCD plain text display, bus connection and key switch		NLMCT15S
Light switch monitoring module 8 inputs incl. line monitor, separate		NLSAM24
Light switch monitoring module 8 inputs incl. line monitor, mounted incl. connection terminals		NLSAM24M
Light switch monitoring module 8 inputs, separate		NLSAM08
Panel printer for Midi-, Maxi- and MultiControl		NLMCBD04
External printer for Micro- and MiniControl		NLBD04E
GLT Modbus gateway incl. software for the MC central unit		NLMCMODBUS
XML data interface		NLMCXML
Switch 852 - 111 - 5-port 10/100BASE-TX for mounting on DIN rail		NLWES852
Switch 882 - 112 - 8-port 10/100BASE-TX for mounting on DIN rail		NLWES882
Block-by-block battery monitoring in new CPS system MidiControl for 18 batteries 17 Ah to 55 Ah, Bat-Logg® Interface integrated in system		NLBTLM184
Replacement sensor for block-by-block battery monitoring Bat-Logg® for replacement battery with NLBT.M. 184		NLBTLSNS4
Surcharge for WIFI module built in in Micro-, Mini-, Midi-, Maxi- or MultiControl		NLMIWLAN