

## Central Power Supply Systems Series MaxiControl MCX



Mobil Code

NLMCX360 + 14x NLDCM42 + NLBAS150FT



NLMCX360 + 14x NLDCM42 +  
NLBAS150FT



NLBAS100FT

### Schrack-Info

The MaxiControl is a modular 19" 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.

With the built-in web interface with integrated visualisation software even large-scale projects can be easily represented in a building floor plan. In addition, it is possible to search for and display test results or malfunctions for specific dates as well as all relevant operating parameters. This greatly minimises maintenance efforts.

The system can be configured using a USB keyboard on the device or on a remote PC via TCP/IP network connection. The 19"-rack technology makes it easy to retrofit or change individual modules.

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. In the largest possible configuration up to 30 circuit modules for up to 60 circuits are installed in a single housing.

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. When using the DCM12E (2x1, 1 A/2x250 VA) circuit modules in combination with "EL" luminaires these emergency luminaires can each be switched individually from a central unit (for details see chapter "Central Switching of Individual Luminaires").

The MaxiControl features a large battery compartment and therefore allows the installation of both the circuit connections and the front terminal batteries with up to 150 Ah(!) in one rack. One rack supports systems of up to approximately 20.5 kW (minus 25% ageing reserve).

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### ■ Please Take Note of the Following

If substations / sub-distributions are connected or optional modules are installed (SAM24M, SAM08M and IOM01M) the technical engineering possibilities must be evaluated up front (additional spacing may be required in the rack)! The result may be a reduced maximum number of circuits or of chargers!

### ■ 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
- Load circuit modules DCM with 3 A, 4 A and 6 A rated current available
- System compatible with circuit module inserts NLDCM12E (1 A rated current) for centrally controlled individually switchable luminaires
- Freely programmable output circuits
- Monitoring of individual luminaires without additional wiring
- Adaptive current monitoring for each load circuit
- Selective isolation testing of the load circuits
- Up to 60 load circuits per 19" rack
- 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

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### Technical Data

Type of mounting:	Wall / free-standing		
Enclosure material:	Sheet steel RAL 7035		
Dimensions:	1850x800x600 mm (HxWxD) (50 mm plinth included)		
Degree of protection/appliance class:	IP20 / I		
Cable inlet:	Top		
Mains connection:	3 x 230 V AC $\pm 10\%$ 50/60 Hz		
Output voltage:	230 V AC / 216 V DC		
Output circuits:	Max. 60 circuits with switching between maintained or non-maintained mode for each circuit		
Max. charger:	10 A		
Battery (not included)	Maintenance-free, sealed lead acid battery Front Terminal OGiV, OGiV, OGI, OPzV or low-maintenance NiCd batteries		
Max. power rating DC: *	<b>1 h</b>	<b>3 h</b>	<b>8 h</b>
with 55 Ah battery (FT)	27.1 A / 5.86 kW	11.4 A / 2.47 kW	5.3 A / 1.15 kW
with 80 Ah battery (FT)	36.6 A / 7.91 kW	15.3 A / 3.3 kW	7.2 A / 1.56 kW
with 100 Ah battery (FT)	51.8 A / 11.18 kW	21.8 A / 4.71 kW	9.6 A / 2.07 kW
with 150 Ah battery (FT)	78.8 A / 17.0 kW	34.2 A / 7.38 kW	13.8 A / 2.97 kW
Permitted ambient temperature:	+10° to +35°C		
Weight:	NLMCX148: 200 kg, NLMCX448: 225 kg (without batteries)		
	Battery set 216 V DC (18 x 12 V / 55 Ah):	346 kg	
	Battery set 216 V DC (18 x 12 V / 80 Ah):	468 kg	
	Battery set 216 V DC (18 x 12 V / 100 Ah):	585 kg	
	Battery set 216 V DC (18 x 12 V / 150 Ah):	819 kg	




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

### Circuit Modules






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
DCM62	4 x F10 A	6 A / 2 x 1300 VA

DESCRIPTION	AVAILABLE	ORDER NO.
<b>Central power supply systems</b>		
CPS system MaxiControl charger: 2.5 A max. 48 circuits (without circuit modules and batteries) with battery compartment for front terminal batteries up to 150 Ah, 1850x800x600 mm (HxWxD)		NLMCX148
CPS system MaxiControl charger: 5 A max. 48 circuits (without circuit modules and batteries) with battery compartment for front terminal batteries up to 150 Ah, 1850x800x600 mm (HxWxD)		NLMCX248
CPS system MaxiControl charger: 7.5 A max. 48 circuits (without circuit modules and batteries) with battery compartment for front terminal batteries up to 150 Ah, 1850x800x600 mm (HxWxD)		NLMCX348
CPS system MaxiControl charger: 10 A max. 48 circuits (without circuit modules and batteries) with battery compartment for front terminal batteries up to 150 Ah, 1850x800x600 mm (HxWxD)		NLMCX448
CPS system MaxiControl charger: 5 A max. 60 circuits (without circuit modules and batteries) with battery compartment for front terminal batteries up to 150 Ah, 1850x800x600 mm (HxWxD)		NLMCX260
CPS system MaxiControl charger: 7.5 A max. 60 circuits (without circuit modules and batteries) with battery compartment for front terminal batteries up to 150 Ah, 1850x800x600 mm (HxWxD)		NLMCX360
CPS system MaxiControl charger: 5 A max. 0 circuits (without circuit modules and batteries) with battery compartment for front terminal batteries up to 150 Ah, 1850x800x600 mm (HxWxD)		NLMCX200
CPS system MaxiControl charger: 5 A max. 12 circuits (without circuit modules and batteries) with battery compartment for front terminal batteries up to 150 Ah, 1850x800x600 mm (HxWxD)		NLMCX212
CPS system MaxiControl charger: 5 A max. 24 circuits (without circuit modules and batteries) with battery compartment for front terminal batteries up to 150 Ah, 1850x800x600 mm (HxWxD)		NLMCX224
CPS system MaxiControl charger: 5 A max. 36 circuits (without circuit modules and batteries) with battery compartment for front terminal batteries up to 150 Ah, 1850x800x600 mm (HxWxD)		NLMCX236
CPS system MaxiControl charger: 7.5 A max. 36 circuits (without circuit modules and batteries) with battery compartment for front terminal batteries up to 150 Ah, 1850x800x600 mm (HxWxD)		NLMCX336

### Required accessories

Slide-in circuit module 19" 2 x 1 A/300 VA – fuse 4x F5 A, for emergency luminaires that can be individually switched from a central unit NL...EL, NL...E		<b>NLDCM12E</b>
Slide-in circuit module 19" 2 x 4 A/860 VA – fuse 6.3 A combined operation M/NM		<b>NLDCM42</b>
Slide-in circuit module 19" 2 x 4 A/1300 VA – fuse 10 A combined operation M/NM		<b>NLDCM62</b>

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DESCRIPTION	AVAILABLE	ORDER NO.
<b>Required accessories</b>		
CPS basic equipment - includes: critical circuit monitoring CCIF, service power outlet SSD, door lock TFST, enclosure plinth BASO, fan contact LUAN1, light switch monitoring module SAM24		NLMCPAKET
Battery set 216 V 18 pcs. Longlife Front Terminal OGiV 12 V/58 Ah (C20) incl. connectors		NLBAS055FT
Battery set 216 V 18 pcs. Longlife Front Terminal OGiV 12 V/80 Ah (C20) incl. connectors		NLBAS080FT
Battery set 216 V 18 pcs. Longlife Front Terminal OGiV 12 V/110 Ah (C20) incl. connectors		NLBAS100FT
Battery set 216 V 18 pcs. Longlife Front Terminal OGiV 12 V/159 Ah (C20) incl. connectors		NLBAS150FT
<b>Optional accessories</b>		
Polycarbonate transparent door (WxH = 480x530 mm) for enclosure H=1850 mm		NLPLX185
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
Output for substation		NLMCABUS
Output for sub-distribution (only in combination with NLUVKOP)		NLMCABUV
Bus converter for networking sub-distributions		NLUVKOP
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
Supplement for panel / tablet PC with touch screen for front mounting		NLPANPC1
Block-by-block battery monitoring in new CPS system Maxi-/MultiControl for 18 batteries 65 Ah to 260 Ah, Bat-Logg® Interface integrated in system, batteries max. 2.5 m distant from battery connection terminal		NLBTLMC181
Block-by-block battery monitoring in new CPS system Maxi-/MultiControl for 18 batteries 65 Ah to 260 Ah, Bat-Logg® Interface in external battery-side enclosure, batteries max. 8 m distant from battery connection terminal		NLBTSMC181
Block-by-block battery monitoring in new CPS system Maxi-/MultiControl for 18 batteries 17 Ah to 60 Ah, Bat-Logg® Interface integrated in system, batteries max. 5 m distant from battery connection terminal		NLBTLMC184
Block-by-block battery monitoring in new CPS system Maxi-/MultiControl for 18 batteries 17 Ah to 60 Ah, Bat-Logg® Interface in external battery-side enclosure, batteries max. 8 m distant from battery connection terminal		NLBTSMC184
Replacement sensor for block-by-block battery monitoring Bat-Logg® for replacement battery with NLBT.MC181		NLBTLSENS1
Replacement sensor for block-by-block battery monitoring Bat-Logg® for replacement battery with NLBT.M.184		NLBTLSENS4
Surcharge for WIFI module built in in Micro-, Mini-, Midi-, Maxi- or MultiControl		NLMIWLAN

