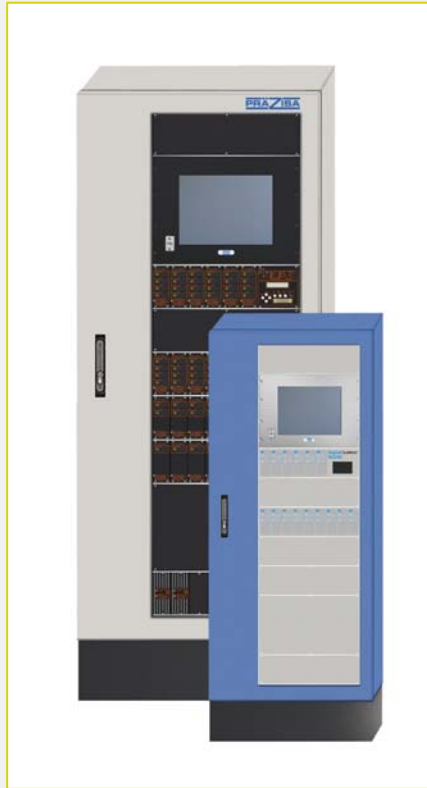




Central Battery System



Selfcontained luminaries (Battery pack inside)



- Integrated test book for 2 years
- Using the general lighting as emergency luminaires
- Designed lifetime of the battery > 10 years
- circuit monitoring
- monitoring each single luminaire
- 19" slide in technology
- Remote control through USB, LON Bus, TCP-IP connection

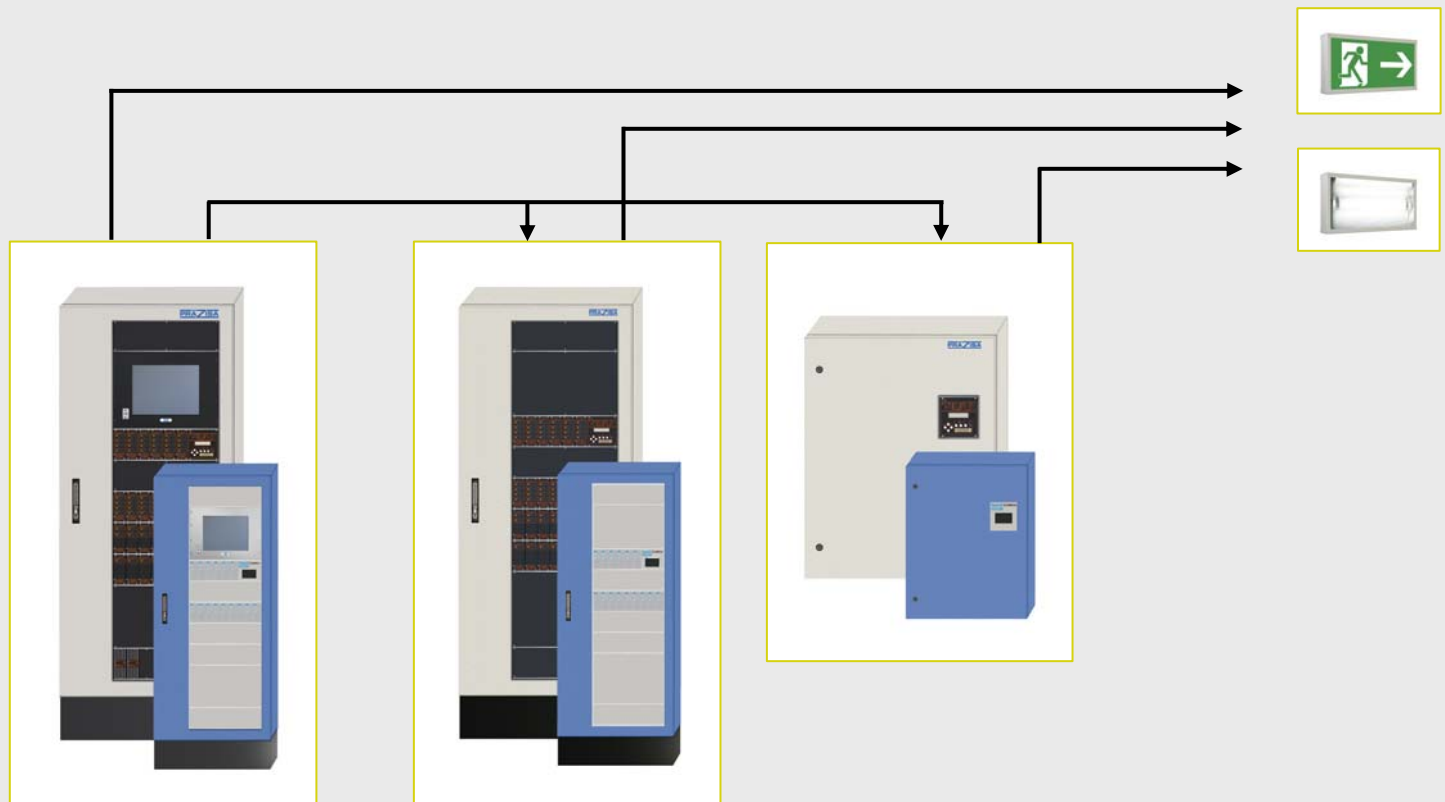
Different luminaires can be supplied:

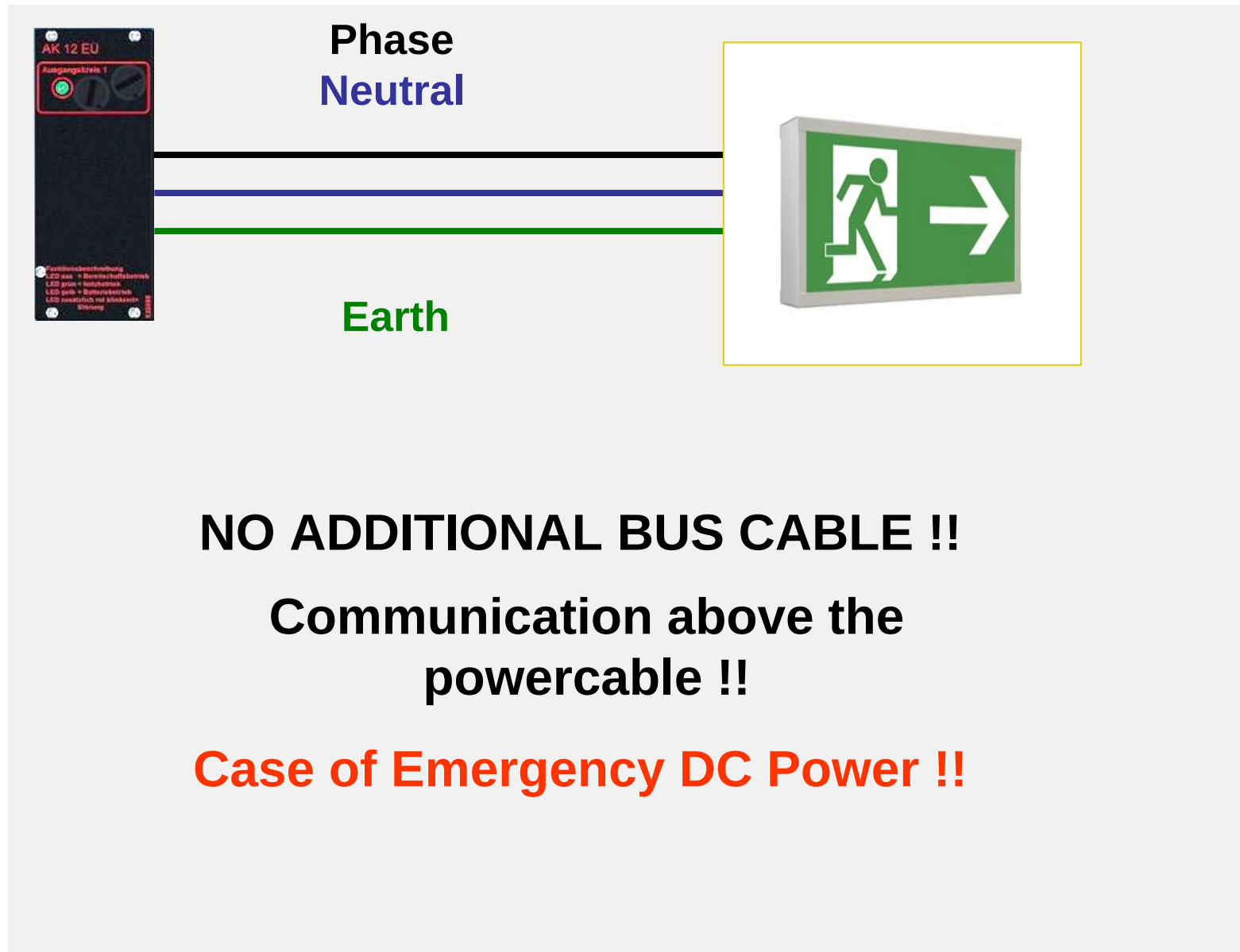
- Led
- Fluorescent tubes
- High pressure lamps
- Bulbs
- cold cathode



Concept:

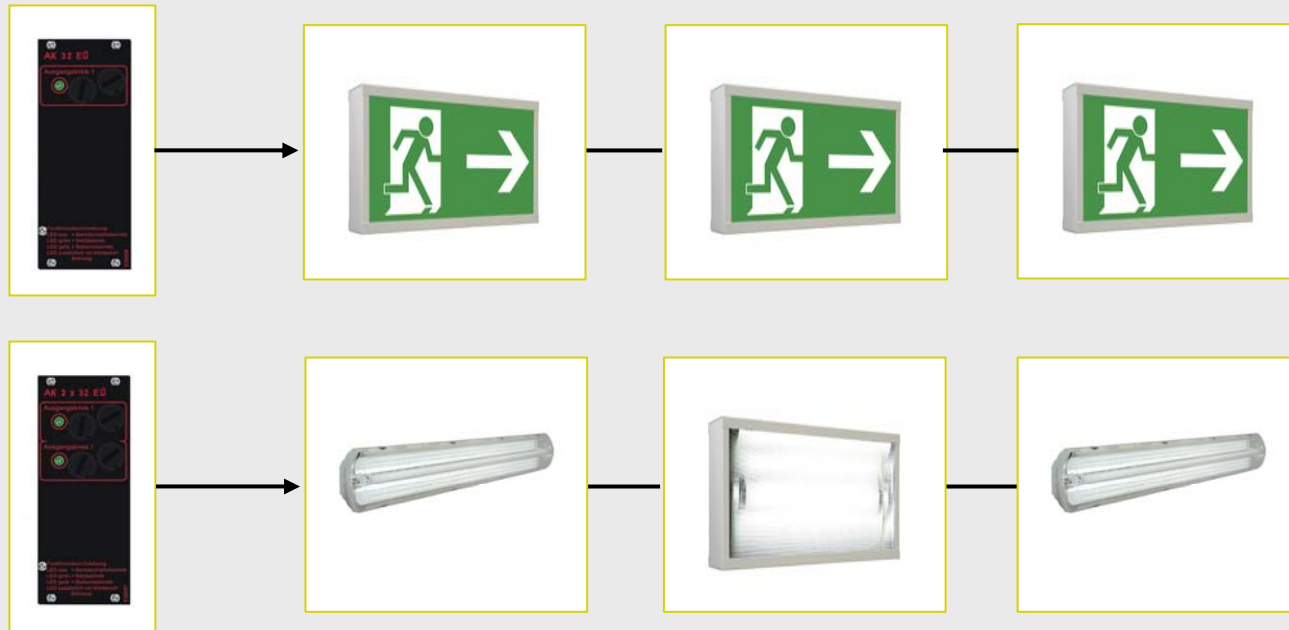
- 1 Mainstation
- max. 30 substation
- max. 3.600 luminaires





Operation mode of luminaires:

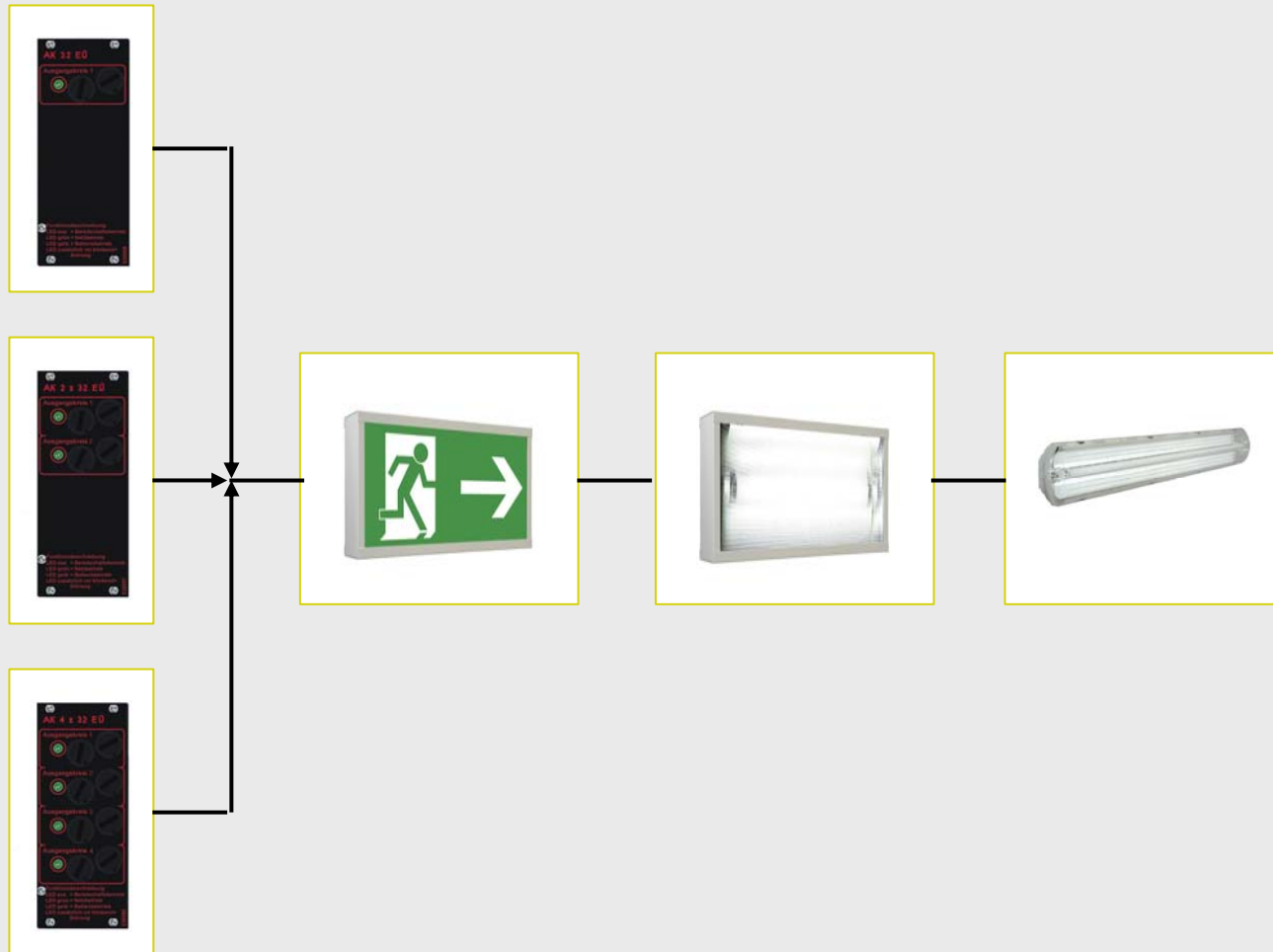
- Different circuits for permanent and non-permanent mode





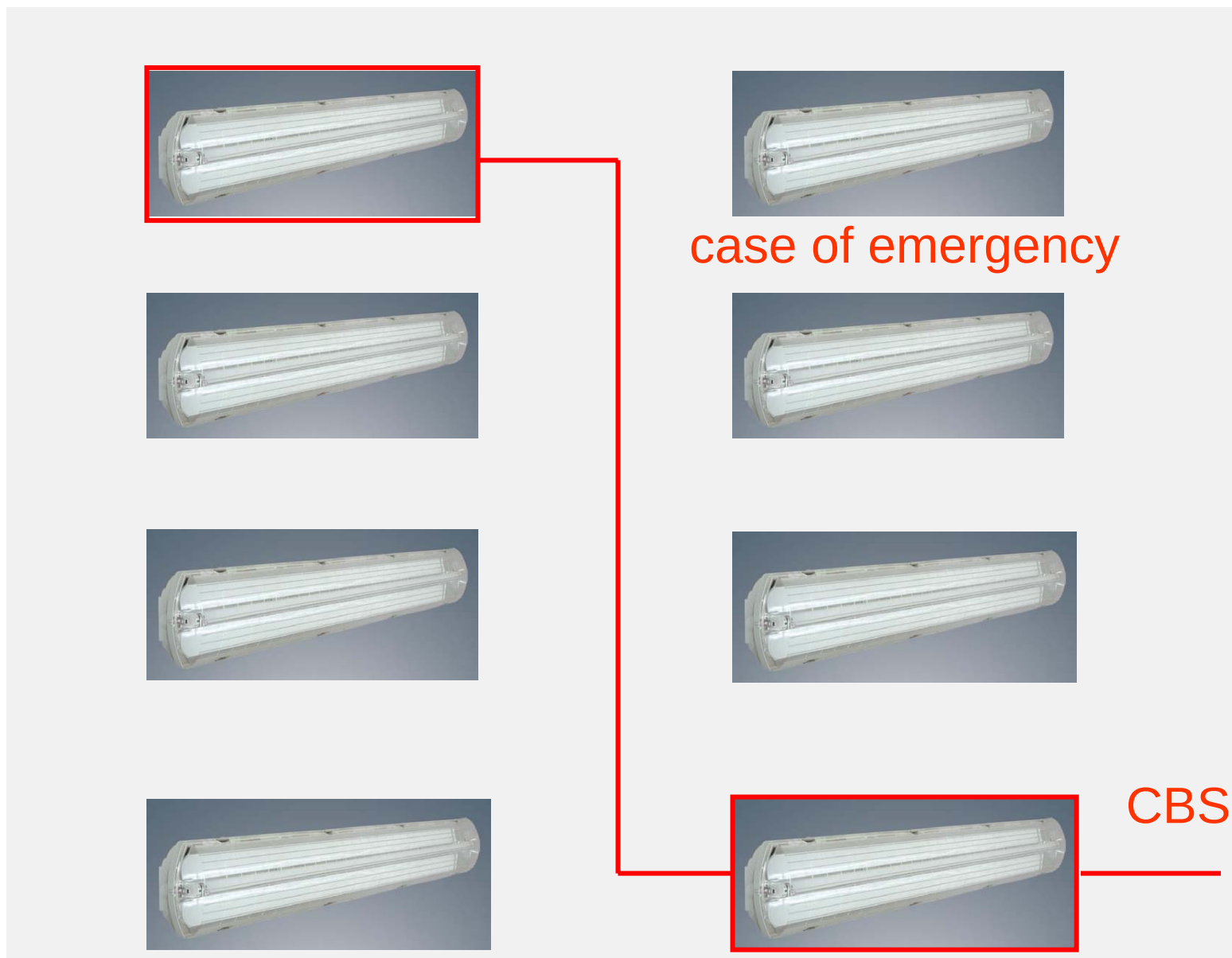
Operation mode of luminaires:

- Permanent and non-permanent in one circuit

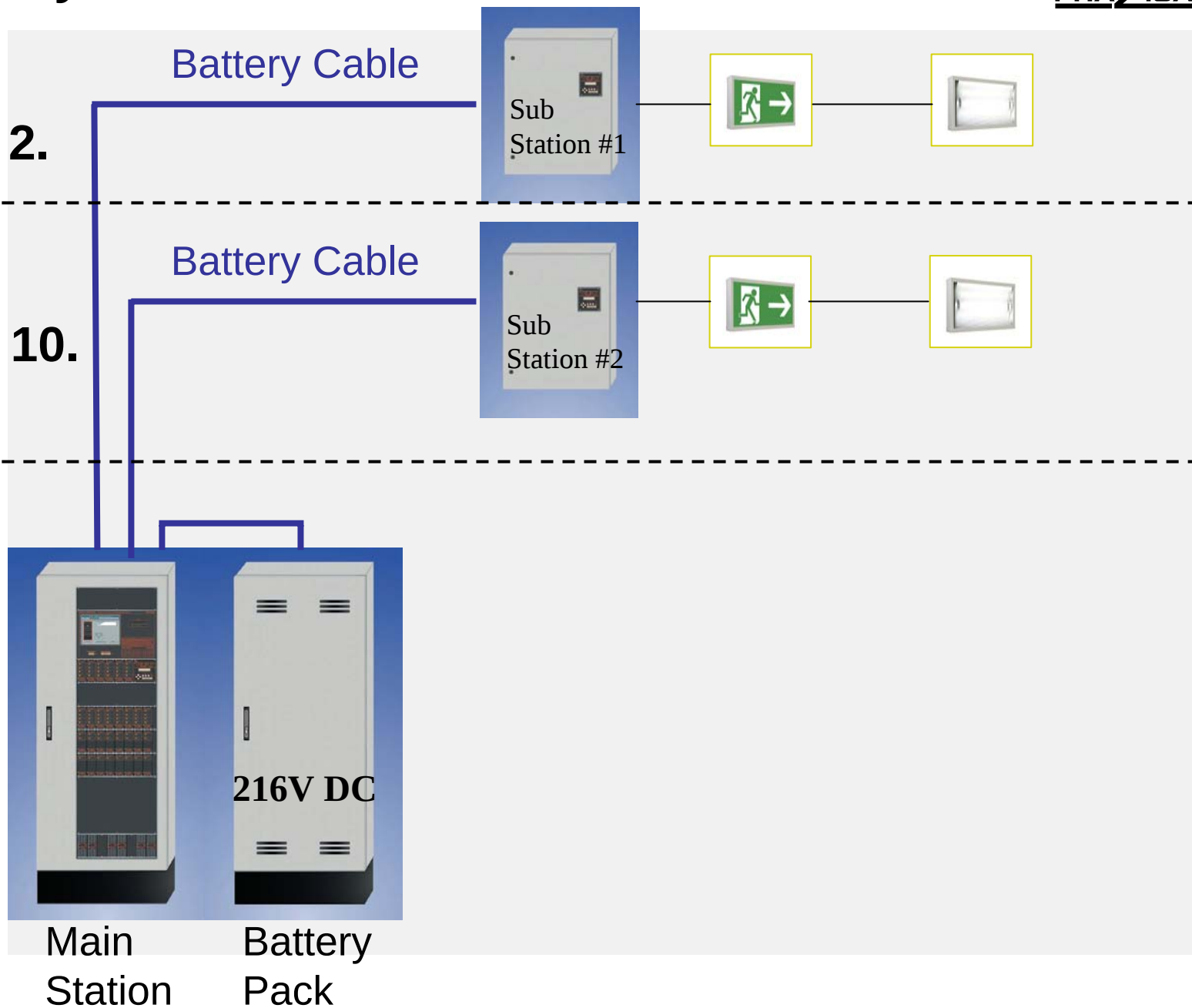




Parking garage



Systemoverview





Combined cabinet



EN50171 Central Power Supply System

- No. of luminaires: max. of the battery load
- connected load: max. 9kW
- max 14 AK-modules (next slide)
- Battery:
 - designed lifetime >10 years
 - 100Ah Battery
 - no separate cabinet for the battery



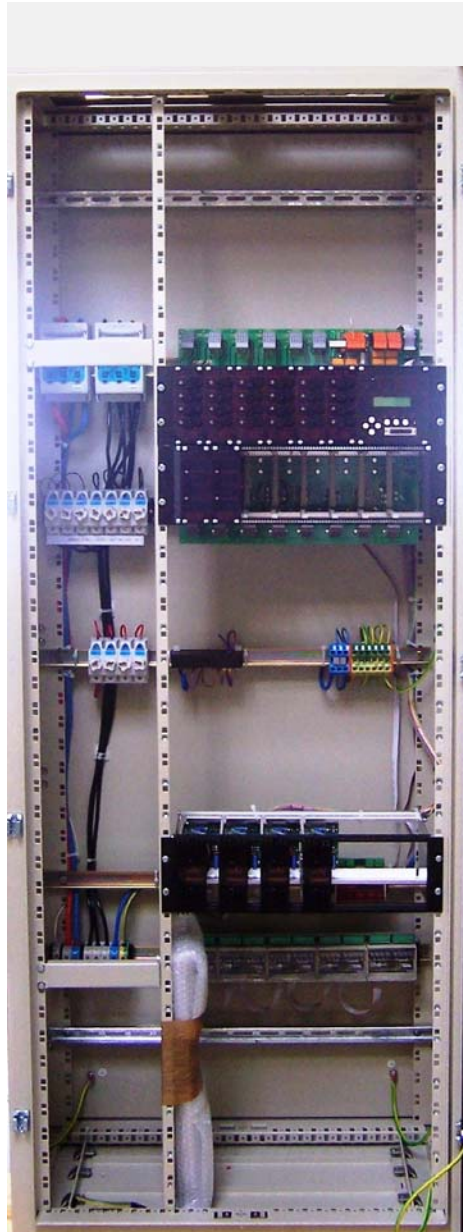
Combined cabinet



- Automatic monitoring system
- Testbook storing of results for 2 years
- Permanent control of charging the battery
- Permanent control of the charging
- Permanent control of the system operation
- Annual duration-test



Standup cabinet

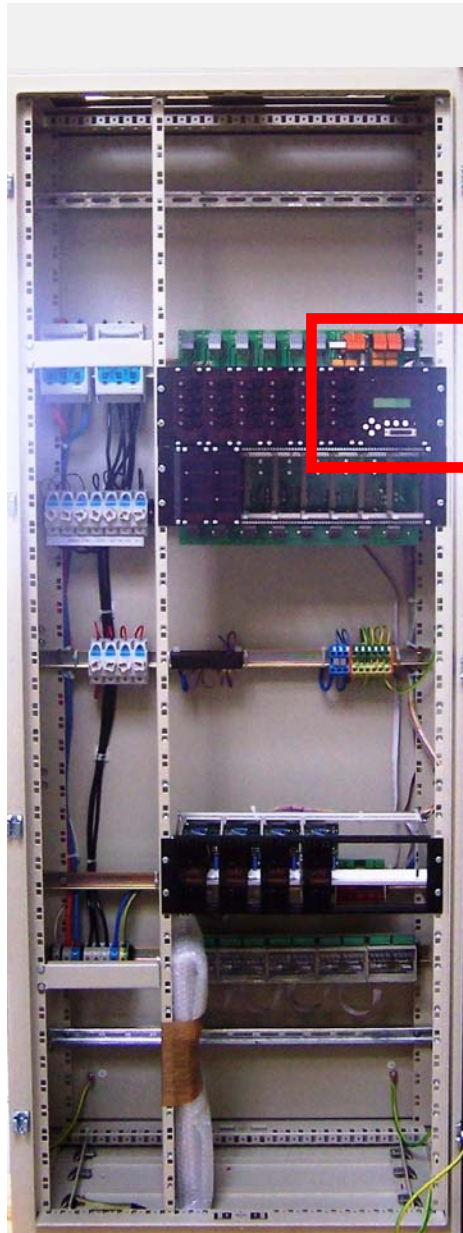


EN50171 <>

Central Power Supply System

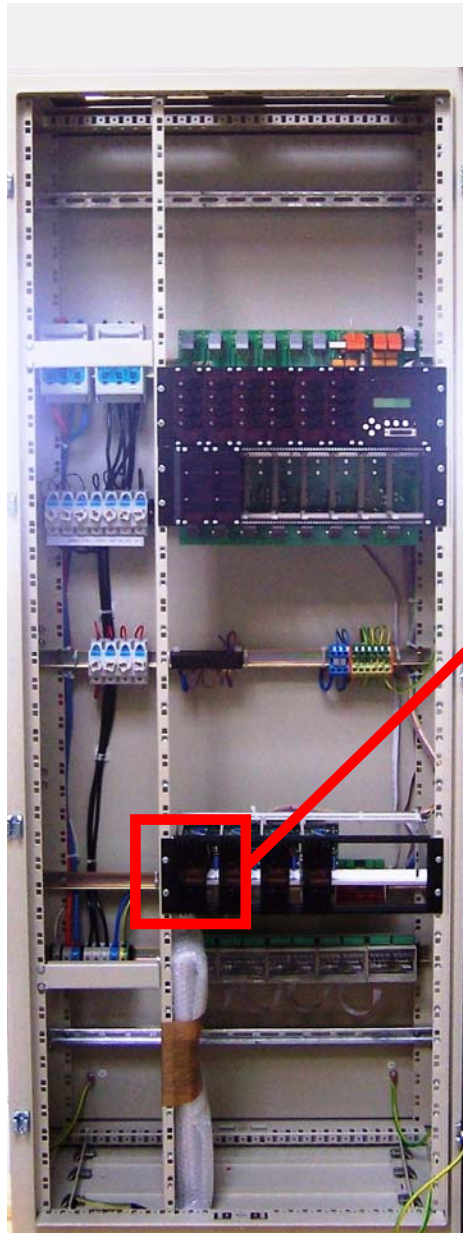
- connected load: max. 18kw
- max 30 Output-modules
- Battery:
 - designed lifetime >10 years
 - separate cabinet for the batteries

Standup cabinet



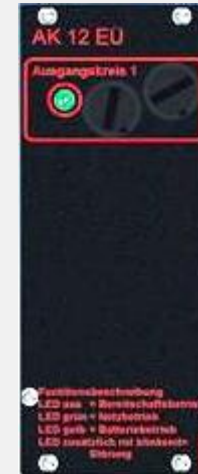
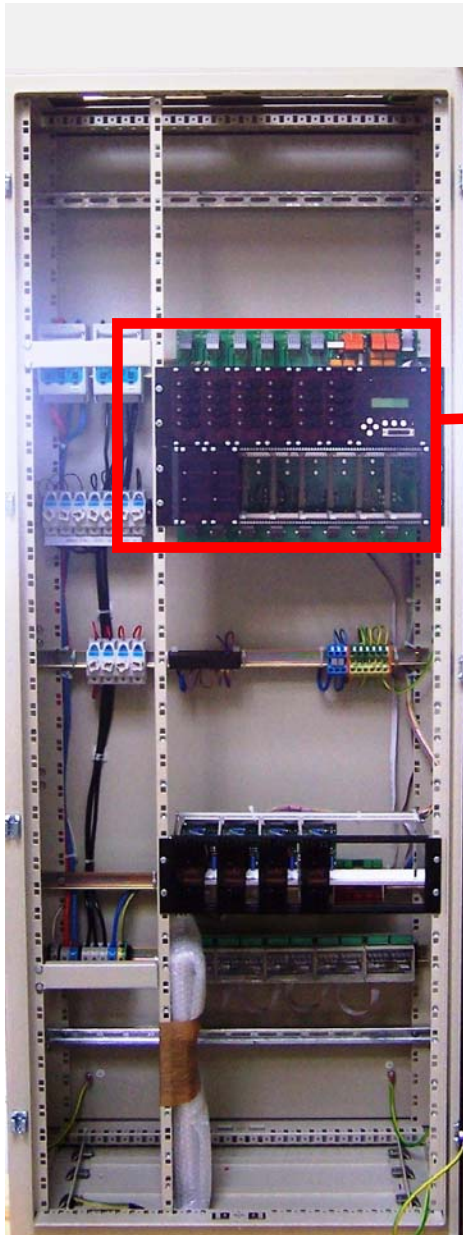
- Automatic monitoring system
- Testbook storing of results for 2 years
- Permanent control of charging the battery
- Permanent control of the system operation
- programming luminaire & circuit modes

Standup cabinet



- Charging Unit L230/1.8A
- Charging of the battery
- quantities according to the batterie capacity

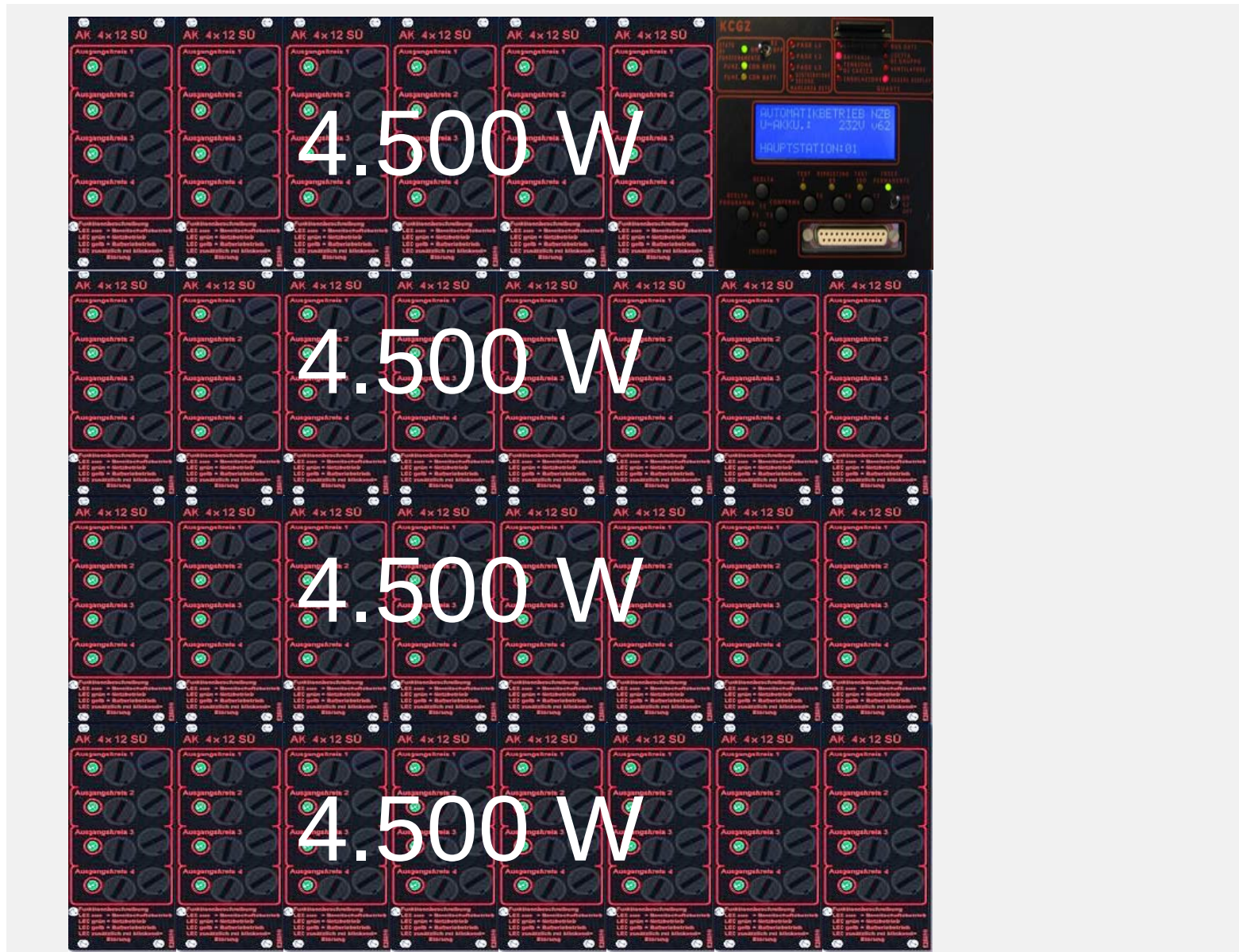
Standup cabinet



- Output Cards
- to connect the lighting fixtures



Stand up cabinet



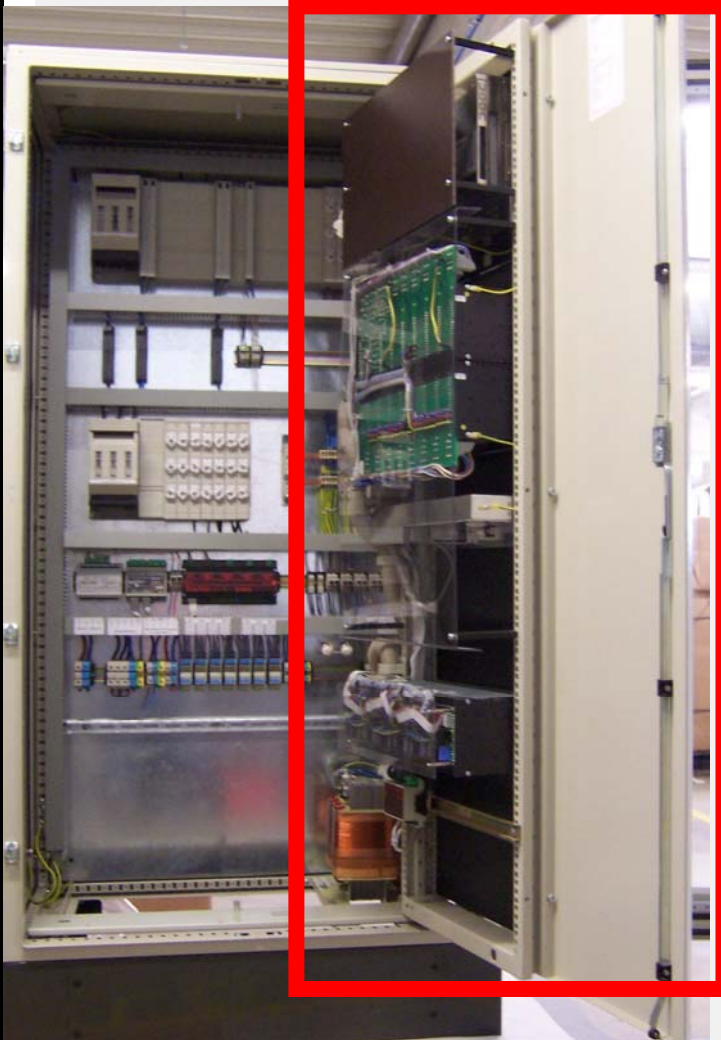
Battery cabinet



- Battery cabinet
- Size and configuration according to the battery requirements
- Delivering included battery connectors

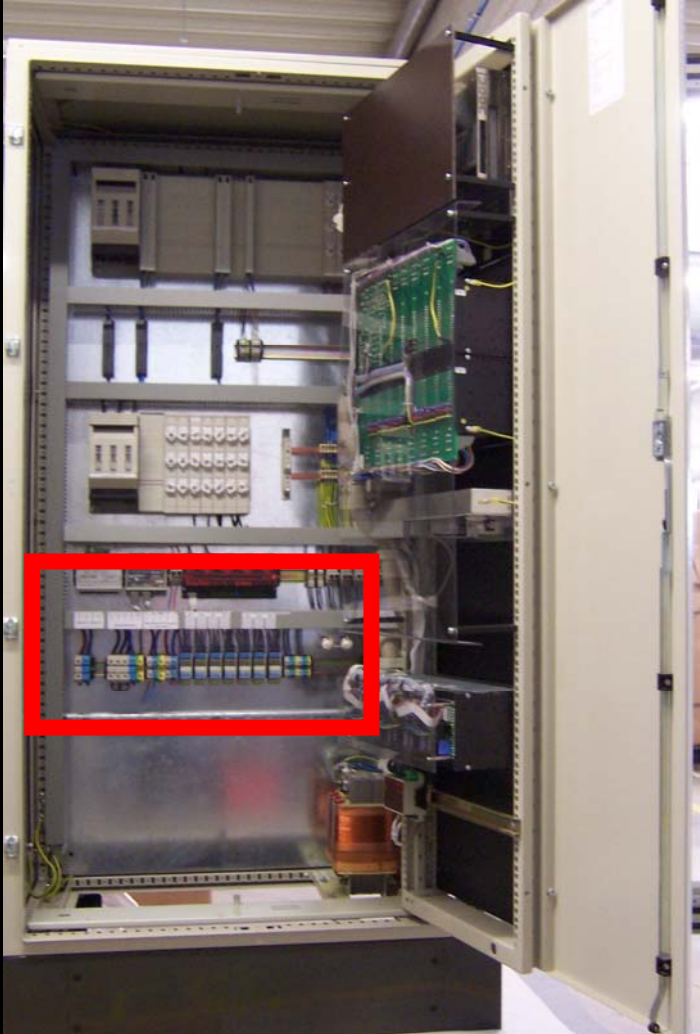


- Cabinet with a transparent door



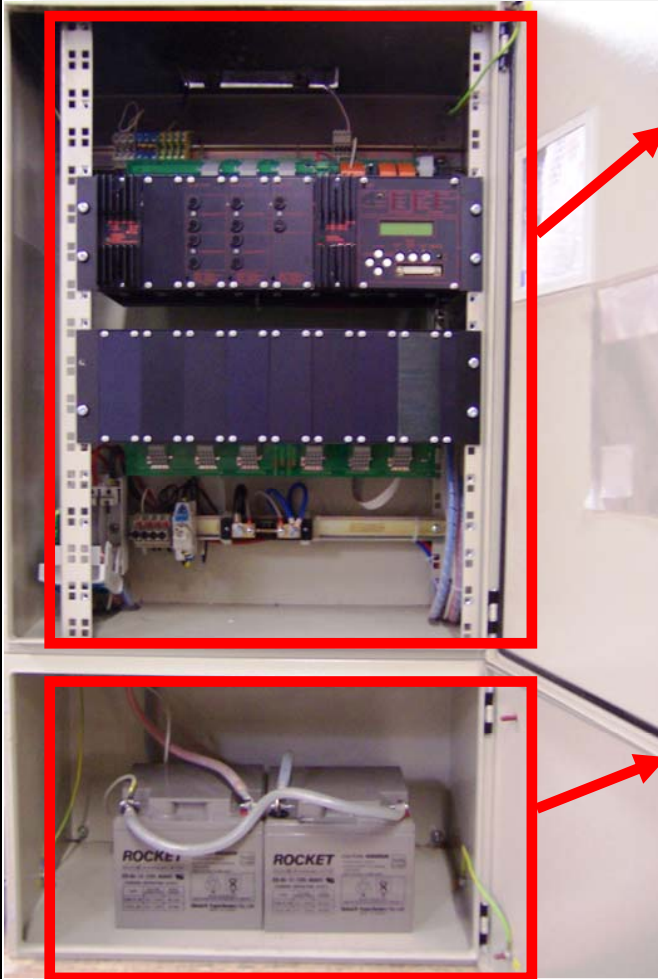
- swivel frame

NZBVA cabinet



- swivel frame
- Ak-modules are connected to clamps/ terminal strips

Group Battery System

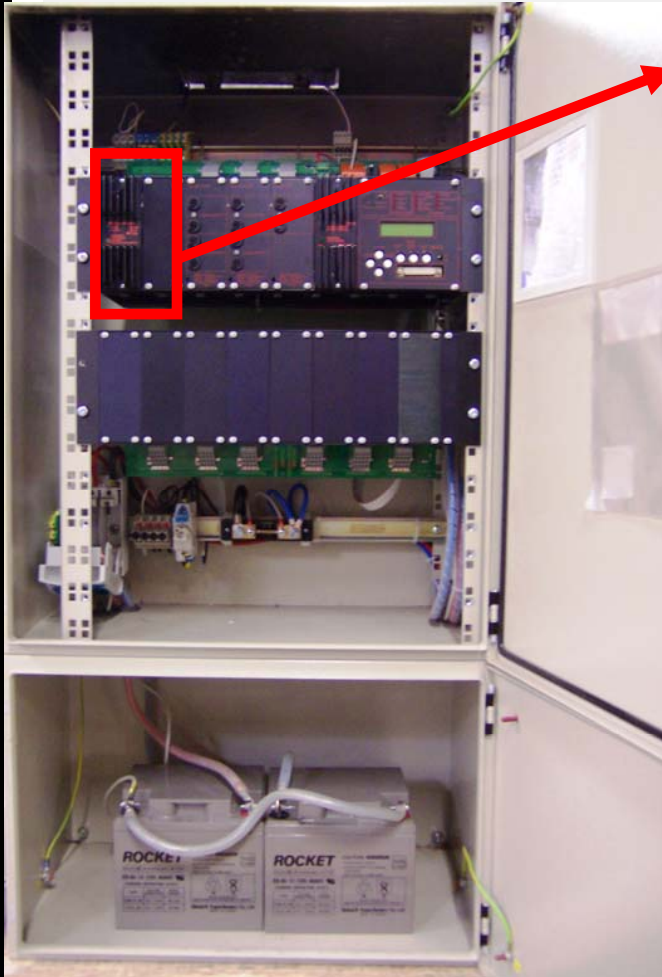


Separate room for control

- KOMBİ CONTROL
 - 9 AK Cards max.
 - 1 charger
 - max.1 **WLG** 750
 - max.3 **WLG** 400
 - Art of protection IP 54

 - max. 120Ah
- (according EN 50171)
- IP 32

Group Battery System



- WLG 400 DC/DC
- max. 400 W
- max. 3 AK



components for CBS



- *Connection of luminaires with electronic ballast suitable for DC supply*
- *monitoring of the circuit*
- *AK Card is available with 1, 2 or 4 circuits*

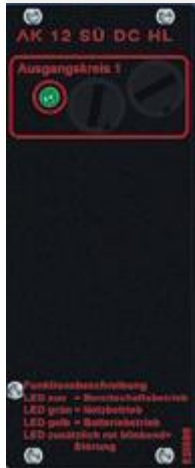


components for CBS



- *Connection of luminaires with electronic ballast suitable for DC supply*
- *option: SLEB or ALOG module*
- *monitoring of each single luminaire*
- *AK Card is available with 1, 2 or 4 circuits*

AK 12 SU-DC HL



Luminaires with

- *HID lamps + electronic ballast*
- *DC output voltage*
- *monitoring of the circuit*
- *Instant switching from mains to batterymode*
- *max. load to connect 150W*
- *AK Card is available with 1circuit*

Luminaire with Auto addressing

*no double addresses
auto - addressing*

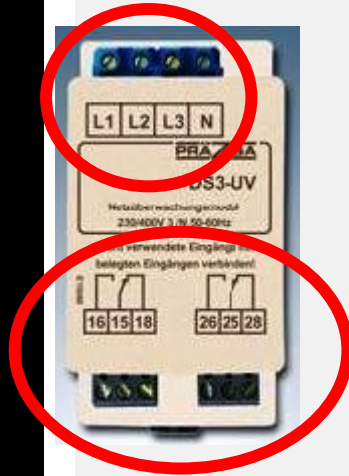
*Individual monitoring with
selective irregularity report*

*can be used maintained and
non-maintenend in same line*



Auto addressing

optional components for CBS



DS3 UV

Module installed in sub distribution, to monitor the mains supply for general lighting

2 potential free change-over contacts

optional components for CBS



- to use signals with 230 V
- movement sensor
- light switch
- relay contacts



Build in Printer

Build in Printer is installed in Group- or Central Battery system.

- *failure protocol*
- *Results of function tests*
- *Results of duration tests*
- *Mains failures/incidents*



LON-Interface

LON-Interface is installed in Group- or Central Battery system for communication with a building management system via LON Bus.

Control of:

- Maintained mode on/off*
- Function test*
- Insulation test triggering*



LON-Interface

Signalling of:

- *mains mode, battery mode*
- *mains failure on main distribution phase L1, L2, L3*
- *mains failure on sub distribution ,group fault, charge fault, battery fault, luminaire fault, bus fault, deep discharge.*

optional components for CBS



Operator panel MSM

Operator panel is installed extern from the Group- or Central Battery system.

- *Operational status*
- *Operating mode*
- *collective failure*



Control of:

- *Maintained mode ON/OFF*

range of luminaires



METRICA



Wallmounting

Viewing distance: 26m

Lamp: 2 x 1W LED

TULA LED

16 cm



32 cm

TULA LED



ceiling, bracket & pendant mounting

Viewing distance: 32m

lamp: 4 x 1W LED

IP 20

PLANA

15 cm



29 cm

PLAN A

ceiling, bracket & pendant mounting

Viewing distance: 32m

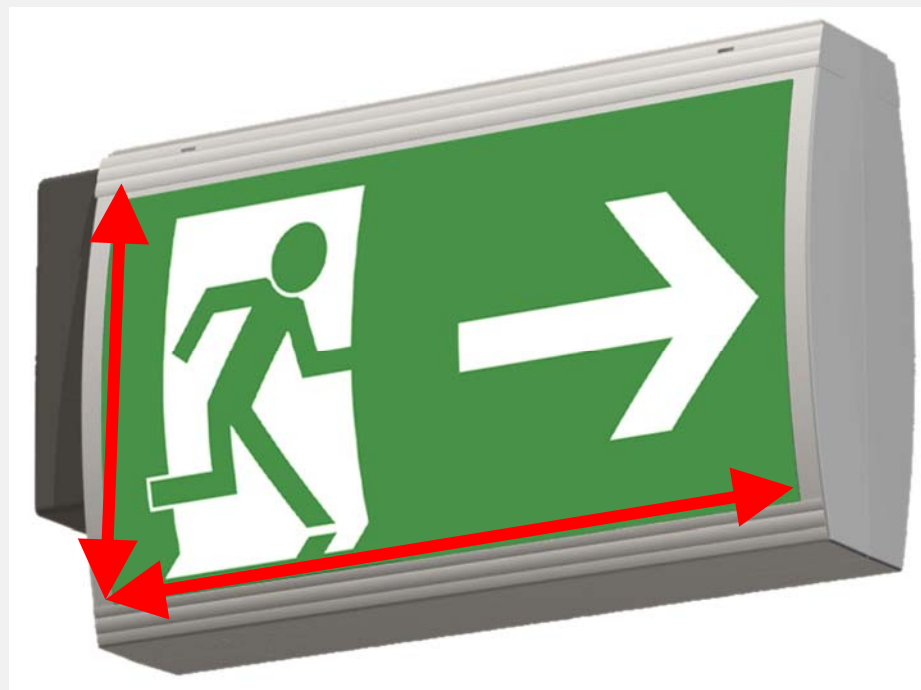
lamp: LED stripe 3,6W

IP 40





MAXIMA LED



16 cm

32 cm



M A X I M A L E D

Wall-, pendant mounting-, ceiling mounting

Viewing distance: 33m

Lamp: LED 2 x 1W

IP 54



M A X I M A T5

Wall-, pendant mounting-, ceiling mounting

Viewing distance: 33m

Lamp: T5 1 x 8W

IP 54

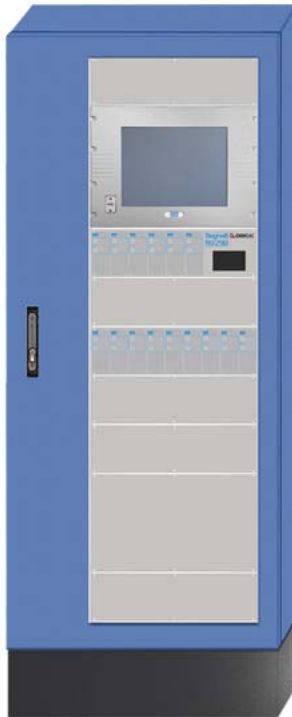


**Colour of cabinet
Brilliantblau (RAL 5007)**

Colour of components

Grey (RAL 7035)

**Kombi Control with
3.5" Touchdisplay**



**Colour of cabinet
Brilliantblau (RAL 5007)**

Colour of components

Lichtgrau (RAL 7035)

**Kombi Control with
3.5" Touchdisplay**



Monitoring System

19" touchscreen

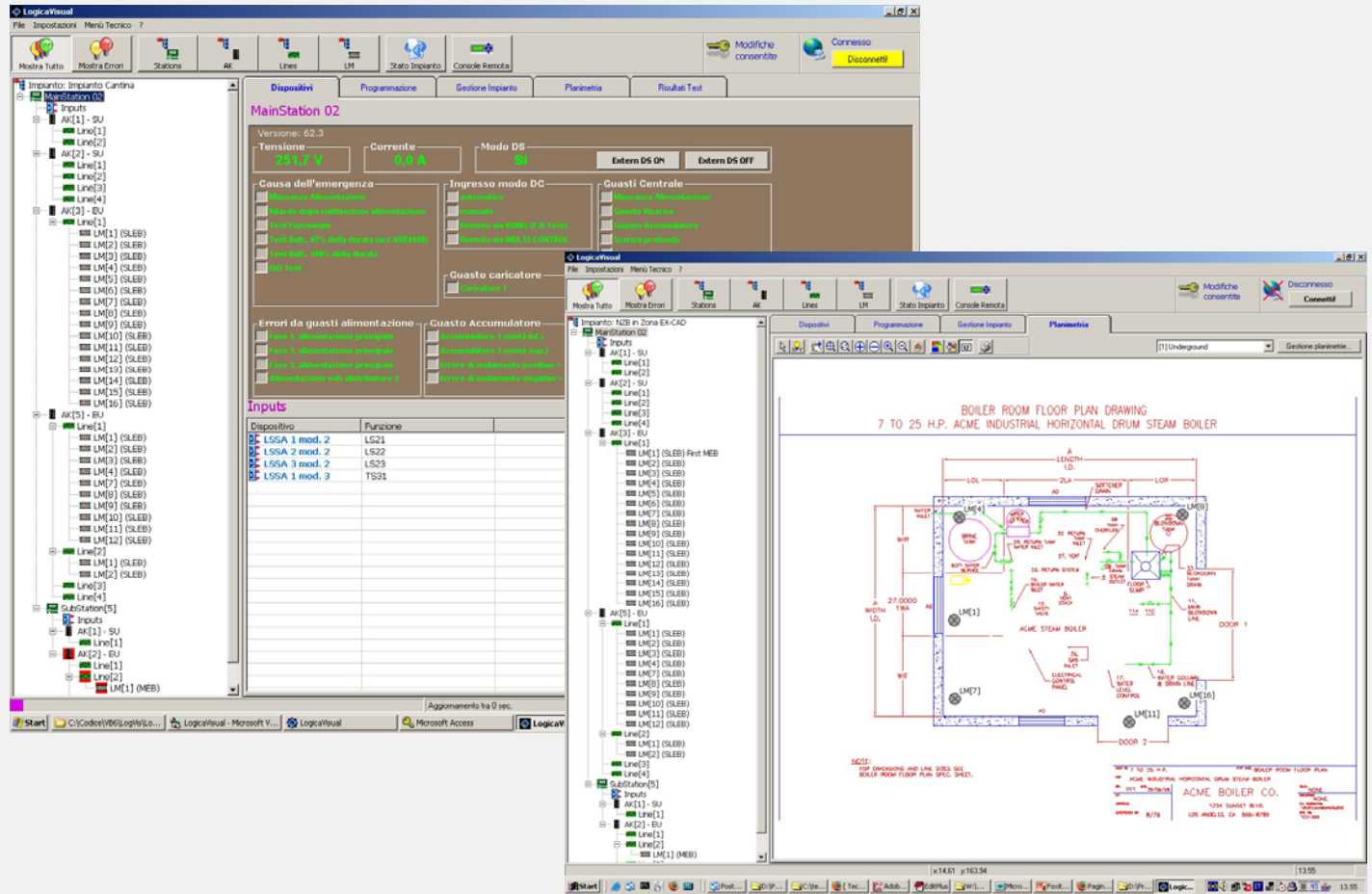
Using and programming

LOGICA Visual

1 GHz

1 GB RAM

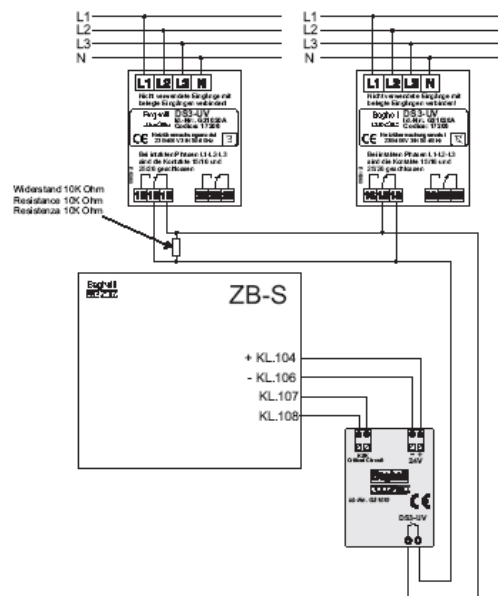
80 GB HDD



G31019 DS3-IM

Beghelli
PRÄZISA

www.beghelli.de

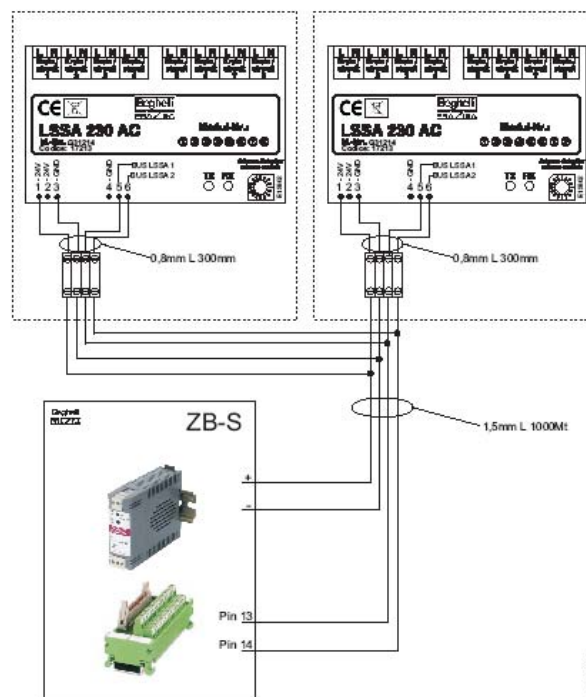
Anschlussplan
Connection diagram
Schemi di connessione

E15845

G31214 / 17213

Beghelli
PRÄZISA

www.beghelli.de

Anschlussplan
Connection diagram
Schemi di connessione

E15843



externe Kommunikation:

- USB/RS485-Interface
- Ethernet/RS485-Interface (LAN)
- Software Logica-Visual:
 - Luminaires can be linked with autocad drawings
 - Import of Autocad Drawings
 - Programmation of the System
 - Controlling the CBS
 - Showing the result of function & duration test
 - Online-Mode:
 - actuel Status (System status / Operation Mode / failure of the system or the luminaires)



References:

- Volkswagen, Braunschweig
- *Fiege Logistic, Neuss*
- *Hypothekenbank, Düsseldorf*
- Hilton, München
- Kaufland,
- *O²-World, Berlin*
- Cineplexx, Landshut
- BMW-Museum, München
- Flughafen, München
- Bahnhof, Mainz
- Bundesverteidigungsministerium, Berlin
- *Amtsgericht, Neuss*



References:

- *Coca-Cola, Malta*
- Vodafone, Ungarn, Budapest
- *Lidl Zentrallager, England, Livingston*
- Rolex-Tower, Dubai
- Four-Seasons-Hotel, Budapest
- Sporthallen, Kroatien, diverse Orte
- Konzerthaus, Österreich, Wien
- Chai-Wan-Hospital, Hongkong
- Flughafen, Bulgarien, Sofia
- Bahnhof, Schweiz, Olten
- *Wirtschaftskammer, Österreich, Wien*