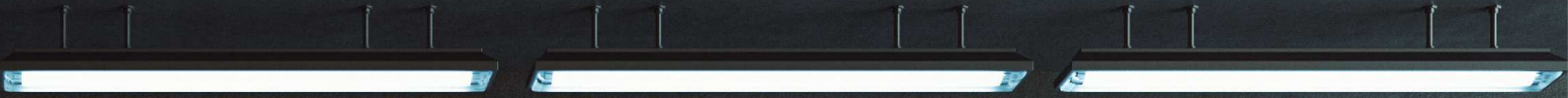




# MERLIN KV 2000

LPS system



# MERLIN KV2000 – The System

In the event of a mains failure, the MERLIN KV2000 LPS system supplies the connected luminaires via a battery system. All final circuits are pre-equipped for mixed technology (escape route and emergency luminaires in one circuit) and can be loaded up to max. 650 VA. The power of LPS systems is limited by the standards. Nonetheless, with 2000 W for 1h, 800 W for 3h and 370 W for 8h, the MERLIN KV2000 is a compact power wizard.

Communication with the luminaires takes place on the supply line (without additional BUS cable). Each address can be assigned a clear, unique location text to enable a luminaire to be localised quickly and conveniently in case of a fault.

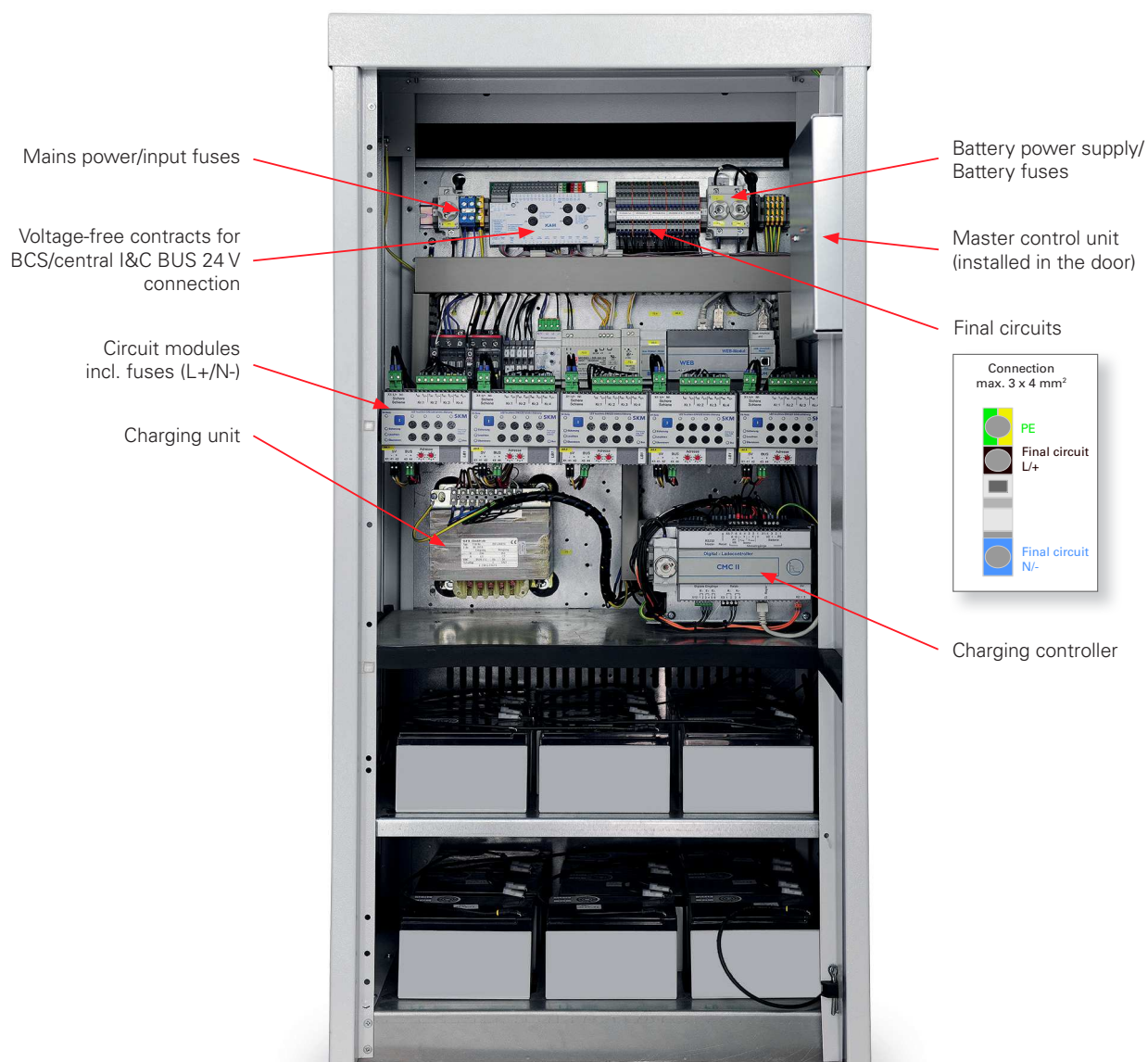
The monitoring of the general lighting can be ensured by means of MERLIN BUS phase monitors. In the event of a failure, the emergency lighting for the area concerned is switched on automatically. Each BUS phase monitor can be assigned a unique location test, so that the local normal supply fault can be corrected in a targeted way.

Whether BACnet or Modbus interface, MERLIN transfers the data in the required format. Voltage-free signalling contacts are naturally included as a standard feature.

You want visualisation of the system and all connected luminaires. Not a problem.

You can access the complete system via a TCP/IP interface. We would be pleased to help you to program your MERLIN LPS system by means of remote access.

MERLIN KV2000 is produced in accordance with the respective current standard (EN 50171).



## TECHNICAL DATA

- Power 1h: 2000 W  
3h power: 800 W  
8h power: 370 W  
incl. 25 % ageing reserve
- 4, 8, 12, 16 or 20 circuits (5A each)  
230V output voltage AC/DC
- Standard single luminaire monitoring using address modules
- Freely programmable final circuits for maintained and non-maintained light and mixed technology
- Microprocessor-controlled functional and duration test
- Programming optionally via PC
- Ethernet connection for web browser visualisation
- Autom. test equipment with logging/recording of results
- Optional: Higher-level visualisation via WEB-MASTER
- Optional: External IOM modules (switch interrogation modules)
- Optional: Installed in tested E-30 fire protection cabinet

# MERLIN KV2000

## SYSTEM DESCRIPTION

LPS systems use a battery system as a standby electricity source, to supply the connected loads in emergency mode. The bridging (stored energy time) is designed for 1h, 3h or 8h, depending on the requirements.

### How it works

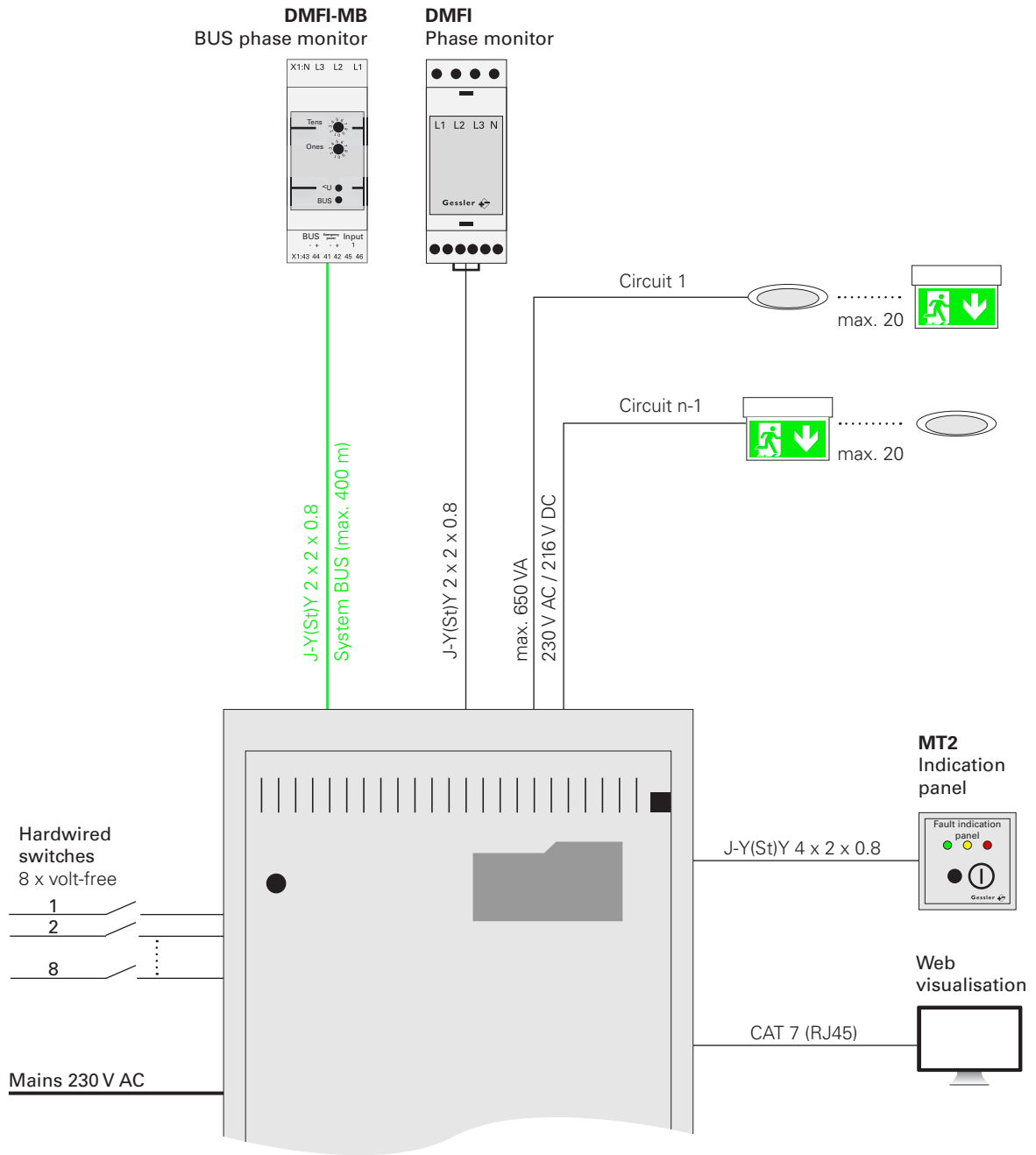
If a mains voltage is applied the loads are supplied from the mains and the battery system is charged. By monitoring the general lighting, it is ensured that in the event of a failure, the emergency lighting is switched on for the area concerned. In the event of failure or a fall in the mains voltage by more than 15%, the system switches to battery mode (DC mode). As a result, the connected escape route and emergency luminaires are switched on automatically.

As soon as a returning mains voltage is detected, MERLIN KV2000 switches to normal mode and again charges the battery system.

The luminaire test required by the standards is performed by the LPS system automatically and it records the result in the standard, integrated test log of the control unit.

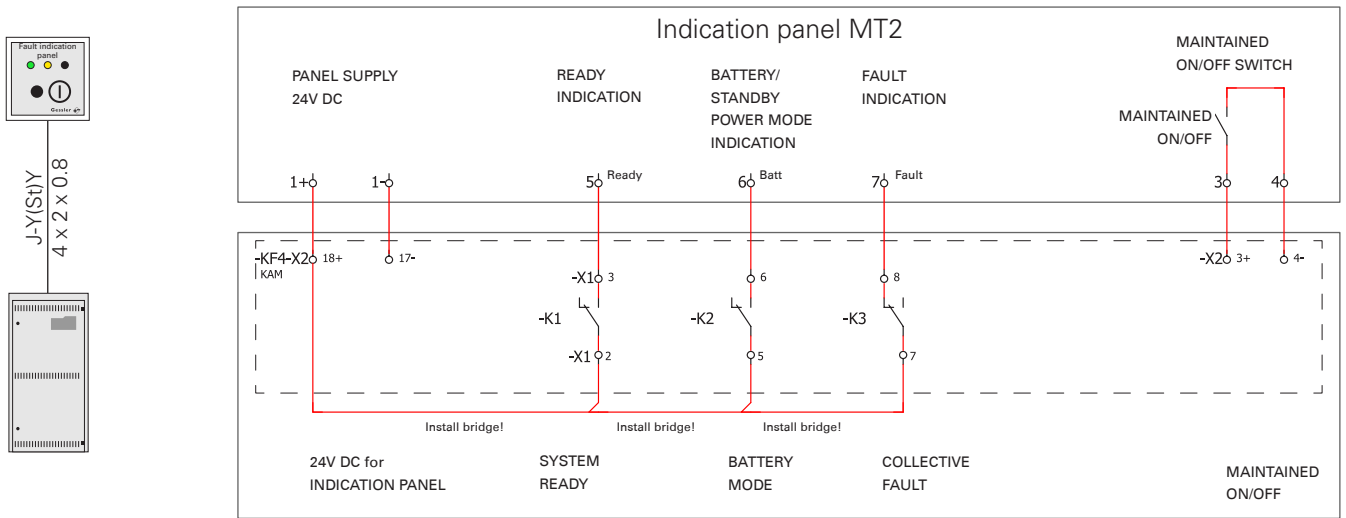
REFERENCE: LOOP5 shopping centre – Weiterstadt





# MT2

## CONNECTION PLAN FOR KV2000

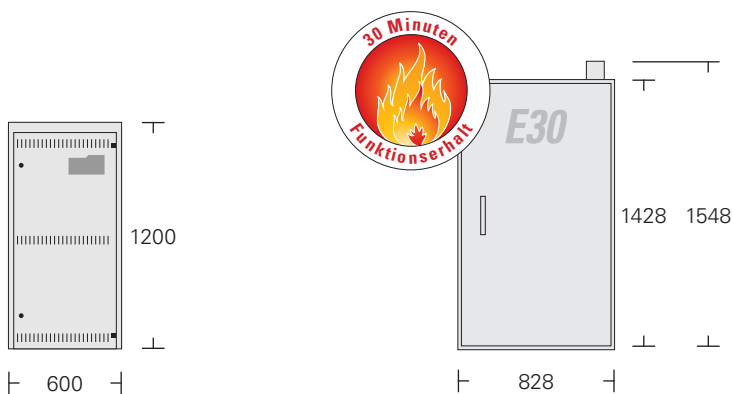


# DIMENSIONS

MERLIN KV2000

MERLIN KV2000

MERLIN IN MAINTENANCE OF INTEGRITY (E30)



### TECHNICAL DATA – MERLIN KV2000

Dimensions H x W x D [mm]

1200 x 600 x 430

Weight incl. batteries: approx. 150 kg

### TECHNICAL DATA – MERLIN KV2000 in E30

Dimensions H x W x D [mm]

1428 x 828 x 575

Weight incl. device approx. 350 kg

# ASSEMBLIES | MODULES KV2000

The following assemblies and modules are compatible with MERLIN:



## MLB10

Address module for MERLIN systems



## IOM230

Switch interrogation module 230 V for MERLIN systems



## MLB10DD

Address module with DALI disconnection for MERLIN systems



## IOM24

Switch interrogation module 24 V for MERLIN systems



## DMFI-MB

BUS phase monitor for MERLIN systems



## WEB-MASTER

High-level visualisation



## DMFI

Phase monitor



## MT2

Indication panel