

Requirements

The focal point of a hospital or medical facility is the patient. An interruption in the power supply could result in a critical situation of treatment and thus in extreme cases endanger the health of the patients.

Medical locations therefore deserve the most modern and secure electrical supply facilities. Under these provisions, the **HaspEC®** regulation and control system was developed by ESA Elektroschaltanlagen Grimma GmbH for the safe supply of hospitals. We therefore fulfil the high requirements on the reliability of the power supply in medical locations in accordance with IEC 60364-7-710 and DIN VDE 0100 Part 710.

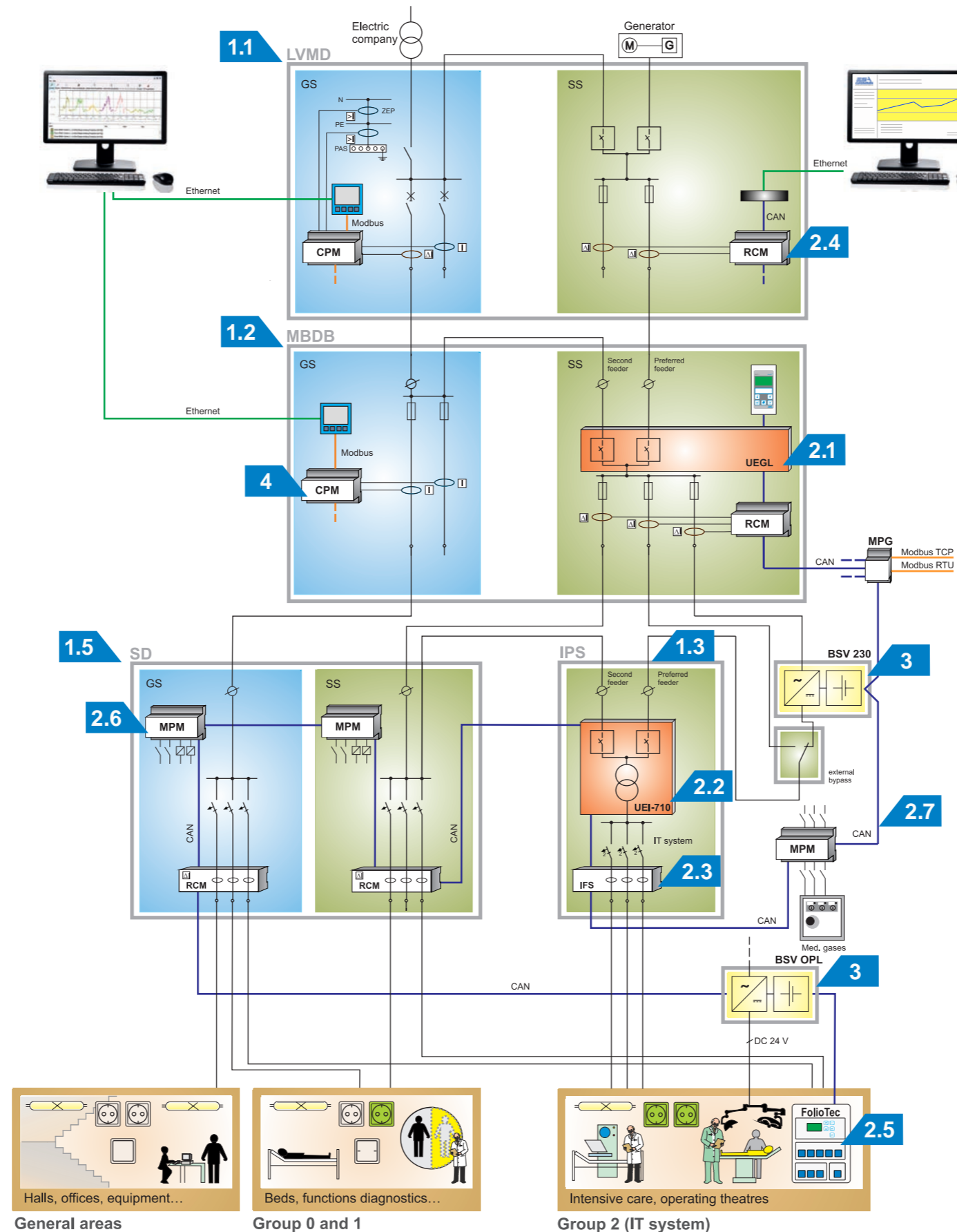
Our Solution **HaspEC®** - One system

The **HaspEC®** regulation and control system is a holistic system solution for secure, comfortable and economical power supply of hospitals. With our technology, we optimally realize all necessary regulation, monitoring and control tasks of a hospital or medical facility.

The flexibility of **HaspEC®** allows it to be used rationally in a wide variety of individual application cases. The system impresses with complex functionality, simple planning and installation. It also provides significant cost advantages for operation and maintenance, as well for expansions or changes.

Your Benefits

- Safe monitoring, archiving, control and display of the operating status of the system in accordance with IEC 60364-7-710 and DIN VDE 0100 Part 710
- Holistic concept with open system structure
- Compatibility with external facilities by linking with other bus systems via digital I/O-device and bus coupler
- Easy expansion or adaptation due to its modular structure
- All the information is also available outside of sterile locations
- Implementation of energy, capacity and cost optimization
- Time and cost advantages for planning, installation and operation
- High availability and reliability due to mutual monitoring of all system components
- Competent service and maintenance



Products and systems for the power supply of medical locations according to IEC 60364-7-710 and DIN VDE 0100-710

- 1 Low-voltage switchgear and controlgear combinations
- 1.1 Low-voltage main distribution board LVMD
- 1.2 Main building distribution board MBDB with change-over module **UEGL**
- 1.3 IT system distribution board **IPS** for Group 2 areas with change-over and monitoring module **UEI-710** and **IFS** insulation fault detection system
- 1.4 Complete battery supported IPS system specifically designed for safe power supply of medical treatment centres, clinics and medical practices
- 1.5 SD subdistributors for Group 0 and 1 areas as well as for the supply of general areas
- 2 **HaspEC®** regulation and control systems
- 2.1 Change-over module for main building distribution board MBDB **UEGL**
- 2.2 Change-over and monitoring module for **UEI-710**, **UEI-710** IT system distribution boards
- 2.3 **IFS** insulation fault detection system
- 2.4 Residual and operating current monitoring with monitoring system **WediV-eEC®**
- 2.5 Display and operating system
- 2.6 Lighting control/interfacing third-party systems with **MPM** digital I/O-devices
- 2.7 Standard field bus CAN
- 3 BSV - Battery supported power supply
- 4 Energy management system
- 5 Regulation and control devices **HaspEC®**

HaspEC® - Schematic diagram of switchgear systems and functional systems in the hospital