

# DALI CONTROL SYSTEM



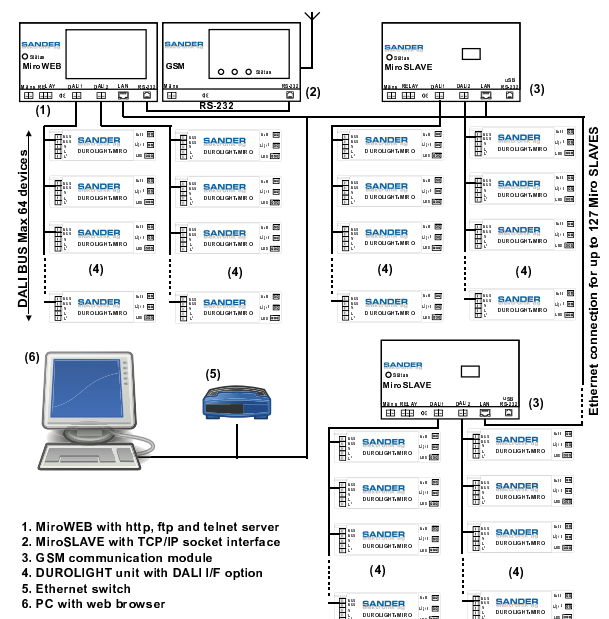
MiroSlave controller units, 2 DALI busses, TCP/IP



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GSM controller module with RS-232 I/F to MiroWEB



1. MiroWEB with http, ftp and telnet server
2. MiroSLAVE with TCP/IP socket interface
3. GSM communication module
4. DUROLIGHT unit with DALI I/F option
5. Ethernet switch
6. PC with web browser

The DALI control system is scalable controller configuration supporting the DALI devices. Primary application is for control of the emergency lighting systems, but it supports also other device complying with the DALI protocol. The main controller unit can be extended with ethernet connection with up to 127 slave units, giving the system capacity to 128 controllers, each controlling two DALI busses of up to 64 devices - 16K devices

The MiroWEB is a central supervision unit which enables the remote supervision of emergency lighting installations. This remote supervision is possible from any computer through the LAN-connection which is a standard feature on all MiroWEB-types. Additionally the remote supervision can also be made from the MiroWEB itself by choosing the MiroWEB-TSCREEN type, which is equipped with a touchscreen along with the standard LAN-interface. Other communication access options are GSM network with optional GSM module connected to the MiroWEB through the RS-232 port, or ModBus connected through the RS-485 port.

To collect and process all the information needed to implement the remote control, the MiroWEB unit has to communicate with all the emergency lights present in the installation. There are 2 possible ways for the MiroWEB to communicate:

**Wired communication:** The wired-type communication is operating on a 2-wire bus as specified in the DALI standard (9600 baud with Manchester encoding) In this case the emergency lights have to be equipped with the DALI type emergency lighting

units.

**Wireless:** The communication can also be implemented using wireless signals with 2.4GHz operating frequency. In this case the MiroWEB has to be ordered as an MiroWEB-WLAN. In this case the emergency lights have to be equipped with MF-type emergency lighting units.

Depending on the size of an installation using wired communication, additional units might be needed. These additional units are used as slave units connected with the Ethernet TCP/IP connection. MiroSLAVE units are equipped with 8-bit controller, supporting simple TCP/IP connection of up to 64 bytes per packet. The GSM communication module allows to access MiroWEB controller without need to access the LAN from the monitoring computer, or for installations, where there is no access to the WAN, or LAN access is restricted for the security reasons. The GSM communication is available for the additional usage charge depending on number of bytes transmitted.

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