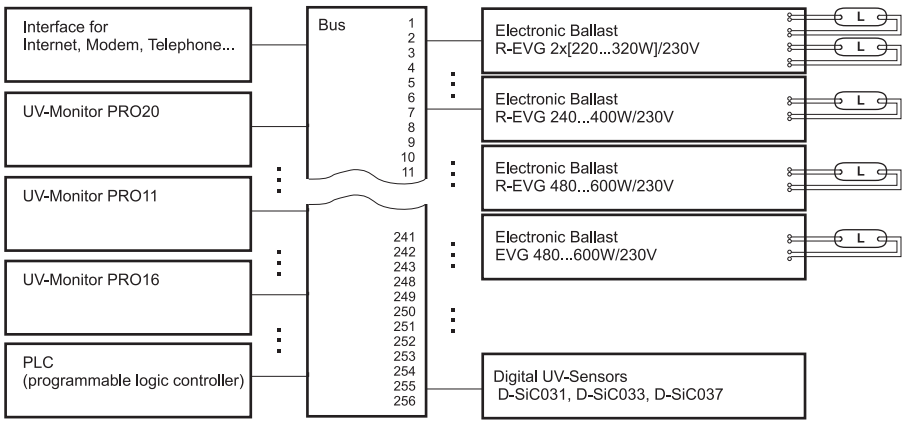
Digital Operation System
Bus System for UV Facilities

unique digital interface for ballasts, sensors, processors and displays



Functions

- each component identifies itself on the bus and exchanges information about component parameters
- the system components communicate directly to each other
- four wire bus cable connects all components of the system
- interface units can be used to communicate with PLC, PC or modem based controllers and allow remote monitoring
- open interface protocol allows third party's adaptions
- measurement values and commands are transmitted digitally
- exchange of communication and error messages
- no additional controller components needed

Digital Sensor Features

- absolute value detection
- sensor includes several measuring ranges, the measuring range is changed automatically depending on the current uv-intensity
- no separate sensor adjustment for different uv-lamp/ sensor arrangements
- digital sensors for low and medium pressure lamps: one sensor for the complete output range from 0,1 up to 2000W/m²
- measuring output as plain text with numerical value and scale unit
- measuring value request by simple standard terminal program (e.g. WINDOWS terminal.exe) or by comfortable customer specific solution

Electronic Ballast Features

- remote control of ballast parameters:
  - switch on/off
  - status readout
  - operation current
  - preheat on/off
  - preheat time
  - preheat current
- remote ballast control
  = control of the paramaters of several ballasts from one master controller (e.g. PLC)
  = assignment of a ballast specific address for identification on the serial bus (to be set by DIP-switch)
- local ballast control
  = control of several ballast parameters via dip-switch settings

Advantages

- digital transmission of signals provides high noise immunity which allows larger cable length for sensors
- lower costs for wiring of the system
- setup and service become more easy
- extension of the system is possible
- very complex systems can be designed
- multi-sensoring (mapping of sensors and corresponding UV lamps) can be programmed

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