UVS-Control

Intelligent touch control unit
for uv lamp drivers and sensors

The UVS-Control unit is specially designed for controlling up to 250 electronic ballasts and sensors.

Based on a fast 32 bit microprocessor with a lot of different interfaces, the controller can communicate with almost any host or device like PLC, PC, electronic ballasts, intelligent sensors etc.

Special advantages

The controller can operate as master device or as a gateway between PLC and ballasts. A number of 250 ballast cards may be connected via a RS485 bus. There are also interfaces for analog and/or digital sensor like UV sensor, flow meter, pressure sensor, temperature etc. uvs-control maintains lamp and ballast data like preheat current, lamp current etc. Lamps can be switches on/off and dimmed separately. Lamps report their status, power and arc current by RS485.

All Information is shown on a 7" touch display. In addition a DALI interface is available to the ballasts. uvs-control can communicate with a PLC or PC via Modbus RTU (RS485/RS422) or Modbus TCP (LAN 10/100MBit). A Wifi connection with integrated webserver is available as an option. Programming and configuration can be done with any PC via a USB or Ethernet connection. An integrated (option) Soft-PLC may be used to control the process and the connected devices in stand-alone mode without the need of a superior PLC. All events are logged and stored in the control unit together with date and time from internal RTC (Real Time Clock)

Functions

- Configuring the ballasts with user defined electrical parameters
- Configuring and communicating with sensors
- Logging the system running data
- Communicating externally with the ballasts and rack systems
- Monitoring and controlling UV output
- Controlling the entire system running
- Act as an gateway between user PLC and ballasts

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All data are subject to alteration.

SES Systemtechnik & uv-electronic GmbH
Mühlgasse 22, D-78549 Spaichingen
Phone +49(0)7424/9015-570 www.ses-systemtechnik.de

UVS-Control

UVS-Control has all interfaces with pluggable connectors

Available interfaces

Interface	Type	Channels	Protocol
Ethernet	10/100MBit/s	1	Modbus TCP, HTTP Webserver
Wifi (Option)	2.4 GHz	1	HTTP Webserver, Cloud
RS485/RS422		2 (1 x PLC, 1 x Ballasts & Sensors)	Modbus RTU
USB 2.0	Serial device	1	Bootloader, Configuration data
7 " Touchdisplay	Color, 800x480		
DALI	Bidirectional	1	See DALI specs

Main technical data

Type	UVS-Control
Mains voltage	24V DC
Date and Time	Internal RTC, battery buffered
Digital inputs	8 x 24V
Digital outputs	8 x 24V /100mA
Analog inputs	12 x 0-10V/4-20mA 12Bit
Analog outputs	2 x 4-20mA 12Bit
Ambient temperature, storage / humidity	-5 to +70° C / max. 80%, not condensing
Ambient temperature, operating	5 to 45° C, not condensing
Dimensions (WxLxH)	Approx. 220 x 155 x 65 mm
Weight	~ 1 kg
Cooling of the unit	No cooling needed
Interfaces	See table