Monitor DUV 12.1

Definition

UV monitor to measure the UV intensity and the temperature of the reactor. Here is a special UV sensor necessary, in which the temperature-measurement is integrated. The monitor displays both values and give optical and acoustic alarm in case of shortfall of the adjustable threshold values.

Applications

- All areas of applications water disinfection
- Drinking or process water disinfection
- Applications with sanitizing via hot water or steam
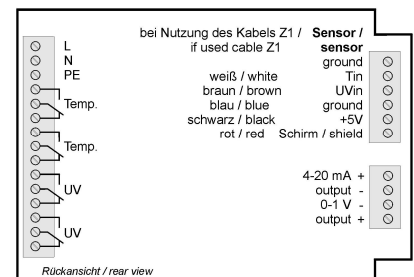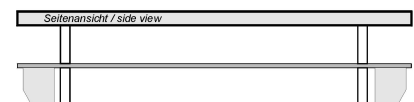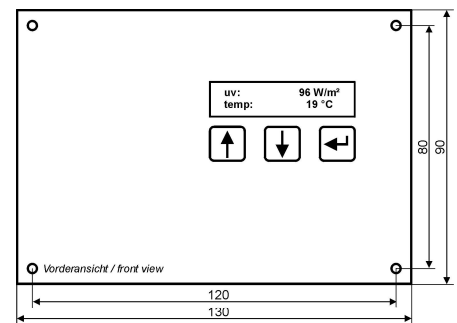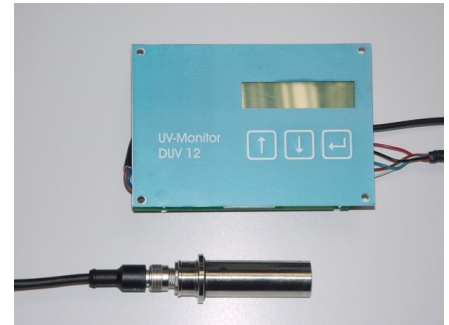- Detection of overheating in applications with MP lamps

Description

- For 90 - 264 V AC main voltage supply
- For installation into the front side of a switchboard (splash proof with corresponding installation)
- Two line background illuminated alphanumeric display (2x16) allow simultaneously displaying of UV and temperature value
- Multicoloured background illumination for optical signalling of different operating states
- Menu control in English with password protection via 3 buttons on the front side
- Two switching outputs for UV and temperature alarm each, alarm threshold on the menu programmable
- Two analogue voltage inputs 0 - 5 V
- Recommend UV-Sensor SUV20.2 Y1 T C and sensor port FUV not included in delivery - please order separately
- One analogue output each for 0 - 1 V and 4 - 20 mA destined for transfer of the measured UV-signal to superior control
- Audible alarm on built-piezo transducer

Technical data

Mains electricity supply	90 - 264 V AC (or 110 - 370 V DC)
Mains frequency	50 - 60 Hz
Case temperature	0 - 50°C
Fault warning relays	24 V DC / 250 V AC, 50 mA - 6 A
Size (H x W x D)	90 x 130 x 40 mm
Installation	in front of the switchboard
Degree of protection	IP 00, front side IP 65
Weight	260 g

Please ask for customer specified versions.

Menu structure DUV 12.1 (version 1.5)

Menu tree structure:

Messwertanzeige → login (*password request only if password protection is activ*) → main menu

- **lcd line 1**
  - uv absolute — *adjustment of displayed values in the first line*
  - uv relative
  - temp celsius
  - temp fahrenheit
  - operating time
  - break
- **lcd line 2**
  - uv absolute — *adjustment of displayed values in the second line*
  - uv relative
  - temp celsius
  - temp fahrenheit
  - operating time
  - break
- **uv alarm**
  - edit — *adjustment of UV alarm as percentage related to the adjusted 100% value*
  - on(xx%) — *switch on UV alarm*
  - off — *switch of UV alarm*
  - break
- **temp alarm**
  - edit — *adjustment of temperature alarm in °C/°F*
  - on(xx°C/°F) — *switch on temperature alarm*
  - off — *switch of temperature alarm*
  - break
- **operating time**
  - edit — *adjustment alarm for operating time in hours*
  - on(xxh) — *switch on operating time alarm*
  - off — *switch of operating time alarm*
  - reset — *reset operating time counter*
  - break
- **uv 100% level**
  - edit — *edit value of 100% radiation level in W/m²*
  - direct — *take over measured value in W/m² as 100% value*
  - break
- **uv irrad. unit**
  - W/m² — *select unit for UV value*
  - mW/cm²
  - µW/cm²
  - break
- **uv calibr. value**
  - 5V=20W/m² — *adjustment end value in W/m² for 5V input port*
  - 5V=50W/m²
  - 5V=100W/m²
  - 5V=200W/m²
  - 5V=500W/m²
  - 5V=1000W/m²
  - 5V=2000W/m²
  - 5V=12000W/m²
  - break
- **change login** — *change or inactivate password*
- **reset**
  - yes — *reset monitor to factory setting*
  - no
  - break
- **return** — *back to measurement display*