Measurement Equipment
UV-Monitor PRO16DPI-I

ready to start:
perfect with ZED digital UV sensors

PRO16DPI-I

Features

- monitoring of relative and absolute UV-intensity via:
  - up to two ZED digital UV sensors
  - ZED UV sensor with 4...20mA interface
  - ZED UV photodiode sensor
- system status indication
  - via alphanumeric display
  - LCD backlight in different colours
- system status forwarding
  - UV main alarm via relay
  - UV value via 4...20 mA output (e.g. to PLC)
- statistics
  - total operation hours / lamp operation hours
  - switch cycles / lamp replacement counter
- ready for certification according to DVGW W294-3 and OENORM M5873-1 standard

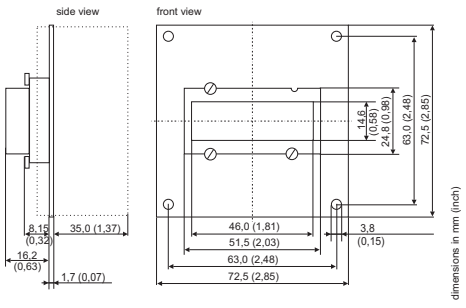
Technical Specification

mains voltage:	230V AC ± 10% 50/60 Hz (115V AC or 24V DC types on request)	**operating temperature:**	0...45°C	**protection level:**	IP20 (IP65 at front on request)
status indication:	LCD: 2*12 digits, 14,5mm heigth	backlight colour: green: function o.k., yellow: pre-alarm, red: main alarm			
handling:	menu-based, 3 buttons	**display range:**	0,01...9999W/m²	**languages:**	English, German
connections:	all inputs and outputs via screw terminals (required wire gauge: 0,34...2,5mm² / AWG 22...14)				
inputs:	1x RS-485 sensor interface 1x 4...20mA current sensor 1x UV-photodiode sensor (incl. 12V DC sensor power supply)	**outputs:**	1x 4...20mA (max. load resistance R_{max}=200Ω) 1x main alarm relay potential free relay contacts (resisitive connected load: 50...500mA at 24...120V AC; 50...500mA at 5...60V DC)		
dimensions (w/h/d):	(72,5/72,5/53)mm	**mounting:**	see drawing, to be mounted in a closed cabinet		
weight:	220g				
recommended sensors:	digital UV sensors: D-SiC131, D-SiC133, D-SiCDVGW-LP/MP, D-SiCONORM-LP/MP UV sensors with 4...20mA interface: SiC131-I(-PG), SiCDVGW-I-LP/MP, SiCONORM-I-LP/MP UV photodiode sensors: SiC-SV01, SiC001(-PG), SiCT001-PG, SiC003(-PG) ... input option for voltage sensors on request				

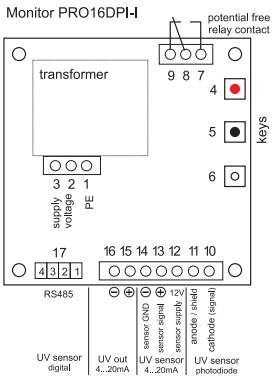
Functions

- UV-intensity alternatively measured:
  - ⇨ via (up to 2) digital sensors (relative in %, absolute in W/m²)
  - ⇨ via sensor with current interface (relative in %, absolute in W/m²)
  - ⇨ via photodiode sensor (relative values in %)
- UV value forwarding (e.g. to PLC):
  - ⇨ 4...20mA output signal assigned to the present UV intensity value (4mA = 0%; 20mA = 100% UV)
- status indication:
  - ⇨ LCD with simultaneous report of UV-value (1st row) and operating hours (2nd row) (if 2 digital sensors connected: simultaneous report of both sensors; operating hours via button up/down),
  - ⇨ LCD backlighting in different colours for additional status indication: green (normal operation), yellow (note/ pre-alarm) and red (warning/main alarm)
- status forwarding:
  - ⇨ potential free relay contacts assigned to certain uv-values for indicating main alarm condition, threshold adjustable via menu
- internal real time clock for counting purposes:
  - ⇨ hour counter to determine the total operation time of the system
  - ⇨ programmable hour counter for counting operation hours of lamps
  - ⇨ programmable lamp life time warning, after exceeding this value the display shows "max. lifetime - replace lamp"
  - ⇨ programmable delay time (0...600s) for system start up (to prevent alarms during lamps power/warming up)
- internal operating cycle counters (shows ons and offs)
- special menu features:
  - ⇨ menu lock to prevent unauthorized access to system settings
  - ⇨ freeze mode: the present state of the system is frozen until next keystroke

Dimensions



Wiring diagram



Note

Attention: Risk of electric shock!

The potential free contacts and the current output do not provide protection against electric shock. All wires connected to the device shall be installed with appropriate protection against contact.

The current output are not potential free.

The device must be installed in a closed cabinet, otherwise lethal voltages can be touched by hand.

The device has to be installed by authorized staff only, to make sure all applicable safety rules are fulfilled.

Please consider the safety instructions in the installation and operating manual.

For use in dry environment only!

subject to change