Measurement Equipment
UV-Monitor PRO30

PRO30

easy to integrate:
converts ZED digital UV sensor data to 0...10V / 4...20mA signals

Features

- monitoring of relative and absolute UV-intensity via:
  - up to two ZED digital UV sensors simultaneosly
- conversion of digital sensors signals to analogue signals (0...10V or 4...20mA)
- system status indication
  - via alphanumeric display
  - LCD backlight in different colours
- system status forwarding
  - UV main alarm via relay
  - selectable one common/two seperate output channels: UV value via 4...20 mA or 0...10V signal
- statistical system informations
  - total operation hour / lamp operation hour
  - switch cycle / lamp replacement counter

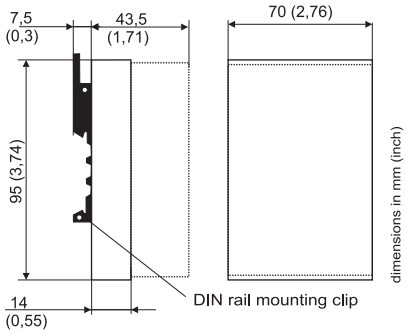
Technical Specification

mains voltage:	230V AC ± 10% 50/60 Hz (115V AC or 24V DC types on request)	**operating temperature:**	0...45°C		
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 (incl. 12V DC sensor power supply)	**outputs:**	2x 4...20mA; potential free (max. load resistance R_{max}=200Ω) 2x 0...10V; (min. load resistance R_{max}=660Ω) 1x main alarm relay potential free relay contacts (resisitive connected load: 50...500mA at 24...230V AC; 50...500mA at 5...60V DC)		
dimensions (w/h/d):	(70/95/50)mm	**mounting:**	DIN rail (DIN EN 50 022-35), to be mounted in a closed cabinet		
weight:	200g				
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				

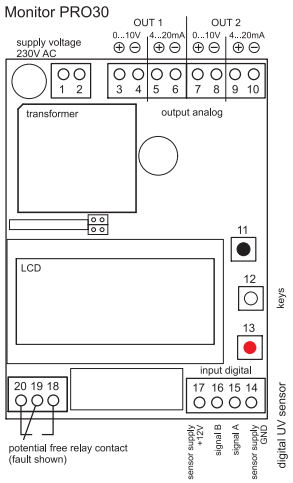
Functions

- UV-intensity measured via (up to 2) digital sensors (relative in %, absolute W/m²)
- conversion of digital sensor signals to analogue signals e.g. for connecting to PLC
  - signal output alternatively 4...20mA or 0...10V
  - analog output signal can be adjusted separately for each channel
  - alternatively:
    shared signal conversion via OUT1 or discrete signal conversion via both OUT1 & OUT2
- 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 contact 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 "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 analogue outputs 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