

ready to start:

perfect with ZED digital UV sensors



PRO11DPI-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 pre-alarm / main alarm via two relays
 - UV value via 4...20 mA output (e.g. to PLC)
- ⇒ remote inputs "UV-off" and "lamp fault"
- ⇒ 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 height	backlight colour:	green: function o.k., yellow: pre-alarm, red: main alarm		
handling:	menu-based, 3 buttons	display range:	0,01...9999W/m ²	languages:	English, German
connections:	all inputs and outputs via screw terminals (required wire gauge: 0,34...2,5mm ² / 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; potential free (max. load resistance R _{max} =200Ω) 1x main alarm relay 1x pre-alarm relay potential free relay contacts (resistive connected load: 50...500mA at 24...230V AC; 50...500mA at 5...60V DC)		
dimensions (w/h/d):	(96/48/114)mm	mounting:	cut-out according DIN43700 (92 ^{+0,8} x 45 ^{+0,6})		
weight:	300g				
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), SIC001(-PG), SIC001(-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 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:
 - ⇒ two potential free relay contacts assigned to certain uv-values for indicating pre- and main alarm condition, thresholds adjustable via menu
- remote inputs:
 - ⇒ "UV-off"-input to stop UV monitoring, alarming and hour counting; used to prevent alarm during start up/warming up
 - ⇒ "lamp fault" - input; shorting this contact shows "lamp error" and activates alarm relays; e.g. to be used with ballasts error relays
- 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

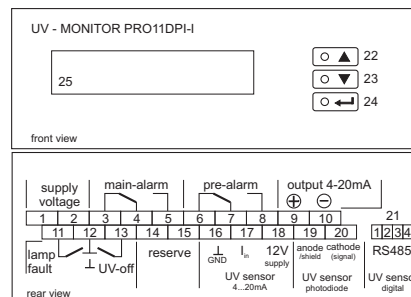
Accessories

Monitor Cover for Protection Level IP65 at Front



cover for UV-Monitor PRO11

Wiring diagram



Note

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.

For use in dry environment only!

subject to change