

UVM-200

UV monitor with LCD display, UV zone LED display and control relays

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Description: UVM-200 is programmable UV monitoring unit cooperating with all digital sensors from UVS family. Monitor displays actual UV level and classifies it into one of three zones: normal, warning and alarm. Actual UV zone is displayed in LED display. UVM-200 is programmable instrument with LCD display – all basic parameters can be changed using built-in programming menu. It can control external devices respectively to measured UV level with the help of built-in optically isolated relays.



Fig. 1. UVM-200 monitor with UVS-200 radio-meter and measuring window

Basic parameters of UVM-200

Dimensions:	height 99 mm, width 45 mm, length 116 mm
Assembly way:	DIN rail (snap-in)
Weight:	400 g
Operating temperature:	0 to +60°C
Mains supply:	230 VAC, 25 mA (rms)
Display:	3 x LED and 2x8 characters alphanumeric LCD
Display back-lighter:	yes, 4 modes
LED display items:	UV zones – NORM, WARN, ALARM
LCD display items:	UV in [Wm^{-2}], UV in [%], temperature [$^{\circ}\text{C}$], working hours in [h:min]
UV display range:	50 mWm^{-2} to 5000 Wm^{-2} , ($5 \mu\text{Wcm}^{-2}$ - 500 mWcm^{-2})
Resolution:	min. 3 decimal digits
Display modes:	measurement display mode, parameter review mode, sign-on mode, programming mode
Keyboard:	4 push buttons with basic and extended functions
Keyboard basic functions:	menu navigation, Esc, ENTER
Keyboard ext. functions:	automatic normalization of UV level, clearing of working hours counter, restore of default parameters
Normal UV level:	user programmable (within measuring range)
Warning UV level:	user programmable (from 0 to 99% of normal level)
Alarm UV level:	user programmable (from 0 to 99% of normal level)
Output relays:	3 relays – NORM, WARN, ALARM
Relay type:	optically isolated SSR, 350V, 120 mA, 30 ohm
Relay delay:	user programmable, from 1s to 999s
Relay mode:	user programmable, NC or NO
Working hours counter:	built-in, capacity of 99,999:59 hours
Sensor bus:	RS-485
Sensor bus cable:	2x2 twisted pair, shielded
Sensor bus length:	max. 1000 m
Sensors:	UVS-100, UVS-100T, UVS-200, UVS-200T

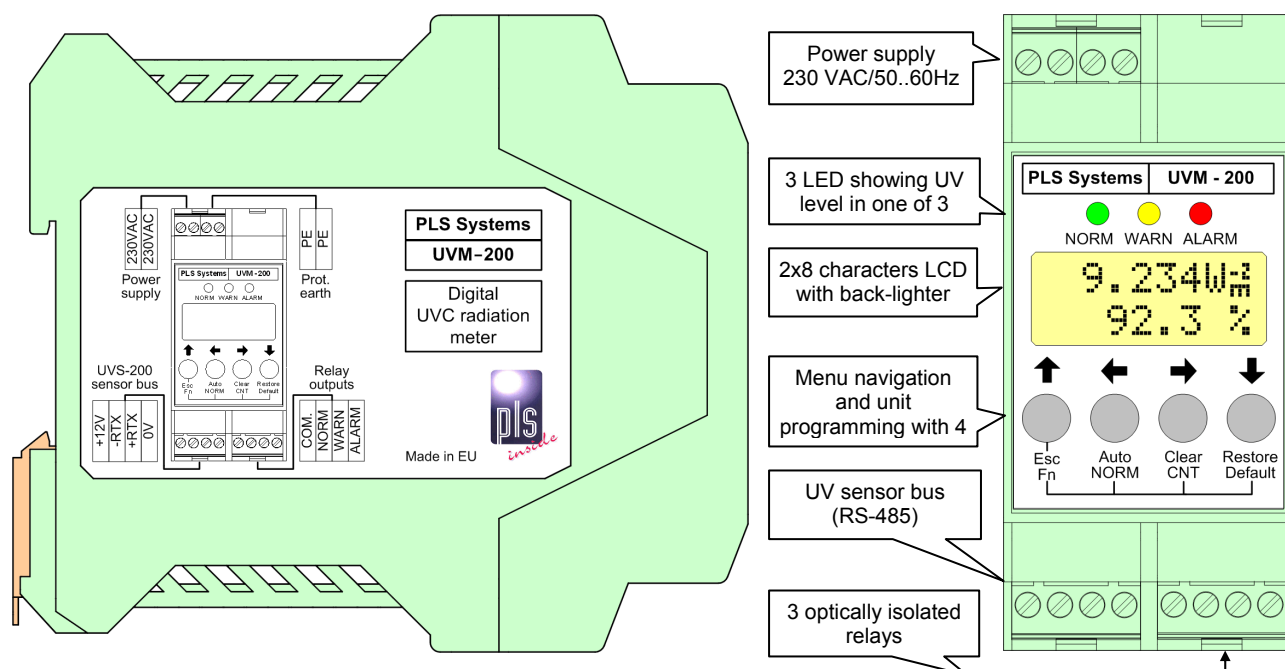


Fig. 2. UVM-200 monitor and front panel displays, controls and terminals

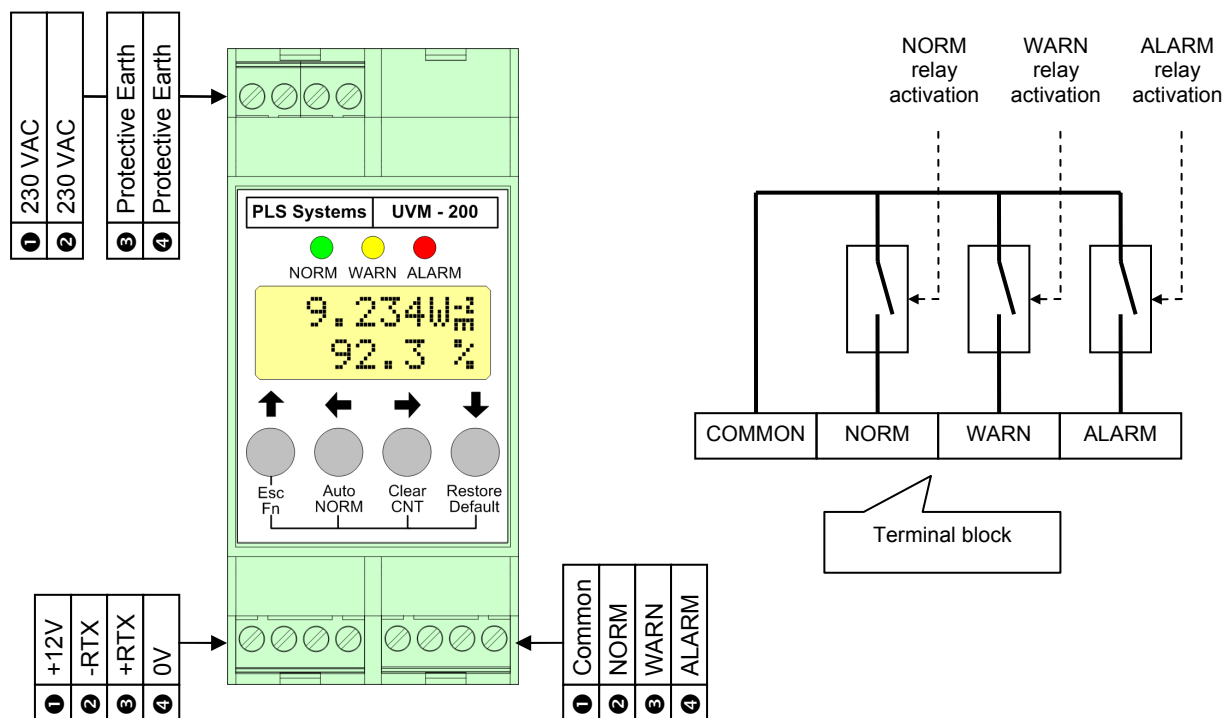


Fig. 3. UVM-200 monitor – input and output terminals

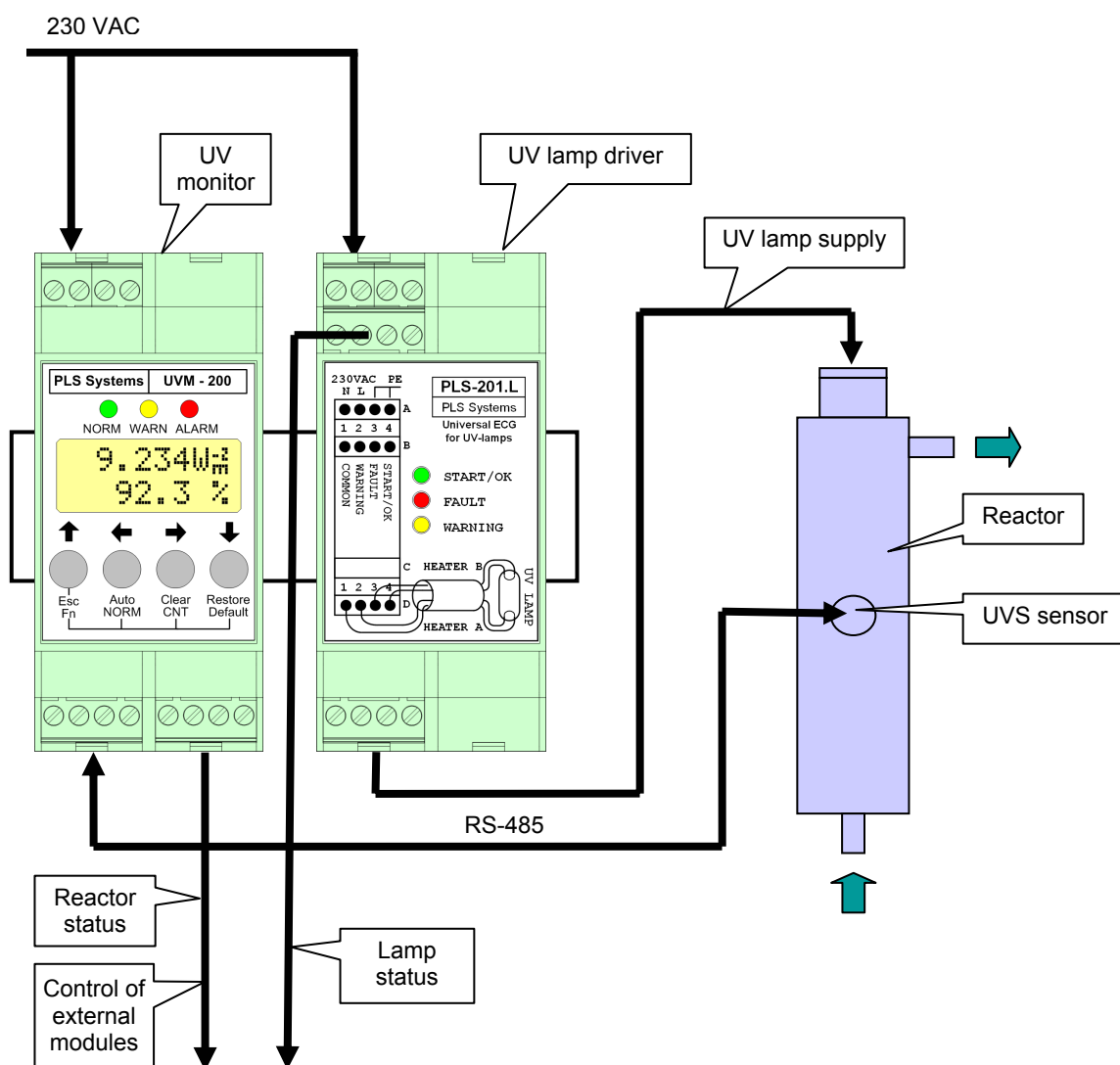


Fig. 4. Wiring diagram of UV monitoring system with UVM-200 monitor, UVS sensor and PLS-201.L ECG