

## PLS-201

Universal HF Electronic Control Gear for UV lamps with discharge current regulation

## Titanium

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**Description:** Programmable HF Electronic Control Gear for UV lamps with variable output working in AC current source mode. Unit performs complete diagnostics of UV lamp in preheating and discharge mode. Result of UV lamp diagnostics is displayed in front panel with 3 LED's: Start/OK, FAULT and WARN.



### Basic parameters of PLS-201

Type:	programmable HF ECG for UV lamps
Lamp type:	any UV lamp with nominal discharge current between 100...1000 mA
Preheating:	programmable intelligent preheating providing long tube life time and reduced solarization
Max. processed power:	120W
Supply voltage:	190-250VAC 50/60 Hz
Discharge current:	programmable between 100...1000 mA according to values required by UV lamp
Output mode:	AC current source mode
Ignition voltage:	≈800 V
Working frequency:	≈40 kHz, fixed
Life time:	100.000 h
λ-factor:	0.97
Inrush current	0 (no inrush)
Lamp fault detection:	all lamp faults detected in standby, preheating, heating, ignition and discharge mode
Signaling mode:	3 local LED's in front panel
Signaling:	Fault, Warning (tube end-of- life), Start/OK
Assembly:	DIN rail
Dimensions:	45 x 99 x 115 mm
Weight:	300 g

Result of UV lamp diagnostics:

Start/OK blinking: unit in lamp preheating mode and tube diagnostics

Start/OK lit: discharge process maintained, correct lamp state

Start/OK and Warning lit: discharge process maintained, warning detected (one of filaments broken, lamp parameters indicating end-of-life condition, etc.)

Start/OK and Fault lit: unit failed to maintain discharge in lamp (lamp disconnected, wrong lamp connection, both filaments broken, lamp broken, etc.)

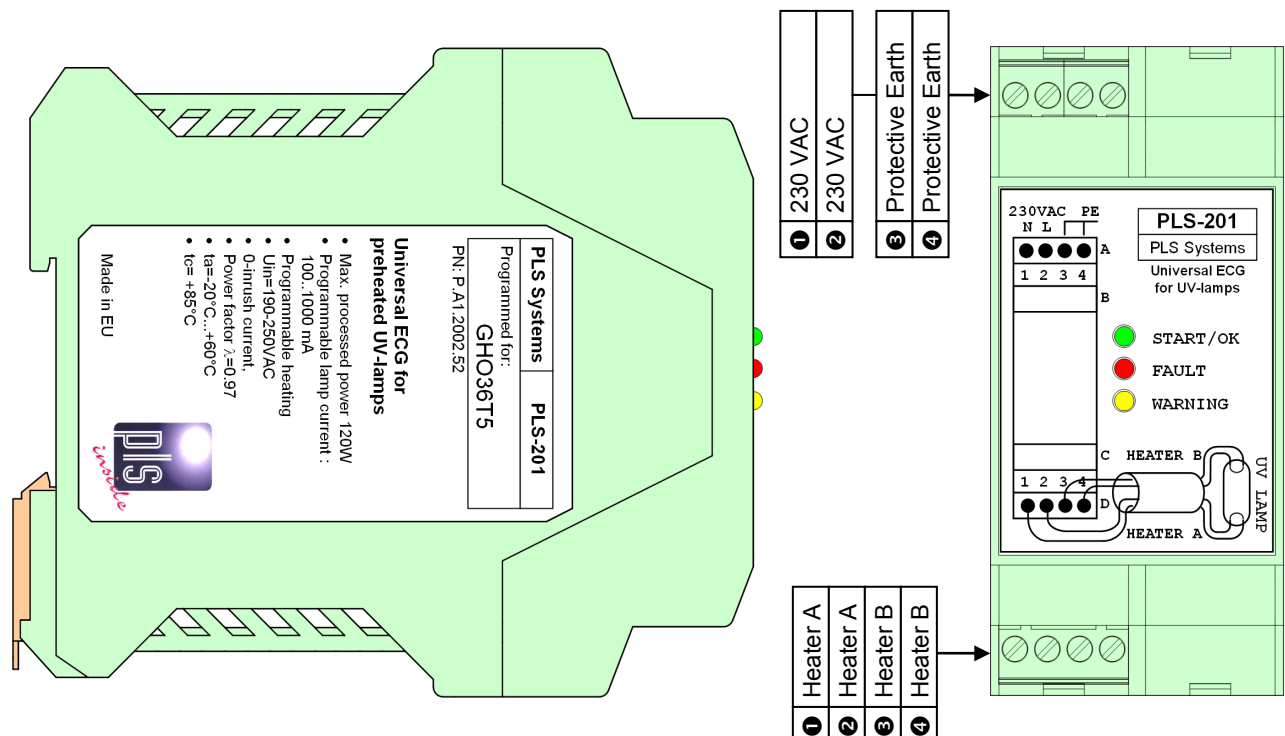


Fig. 1. Electronic control gear PLS-201 with front panel diagnostic LED's

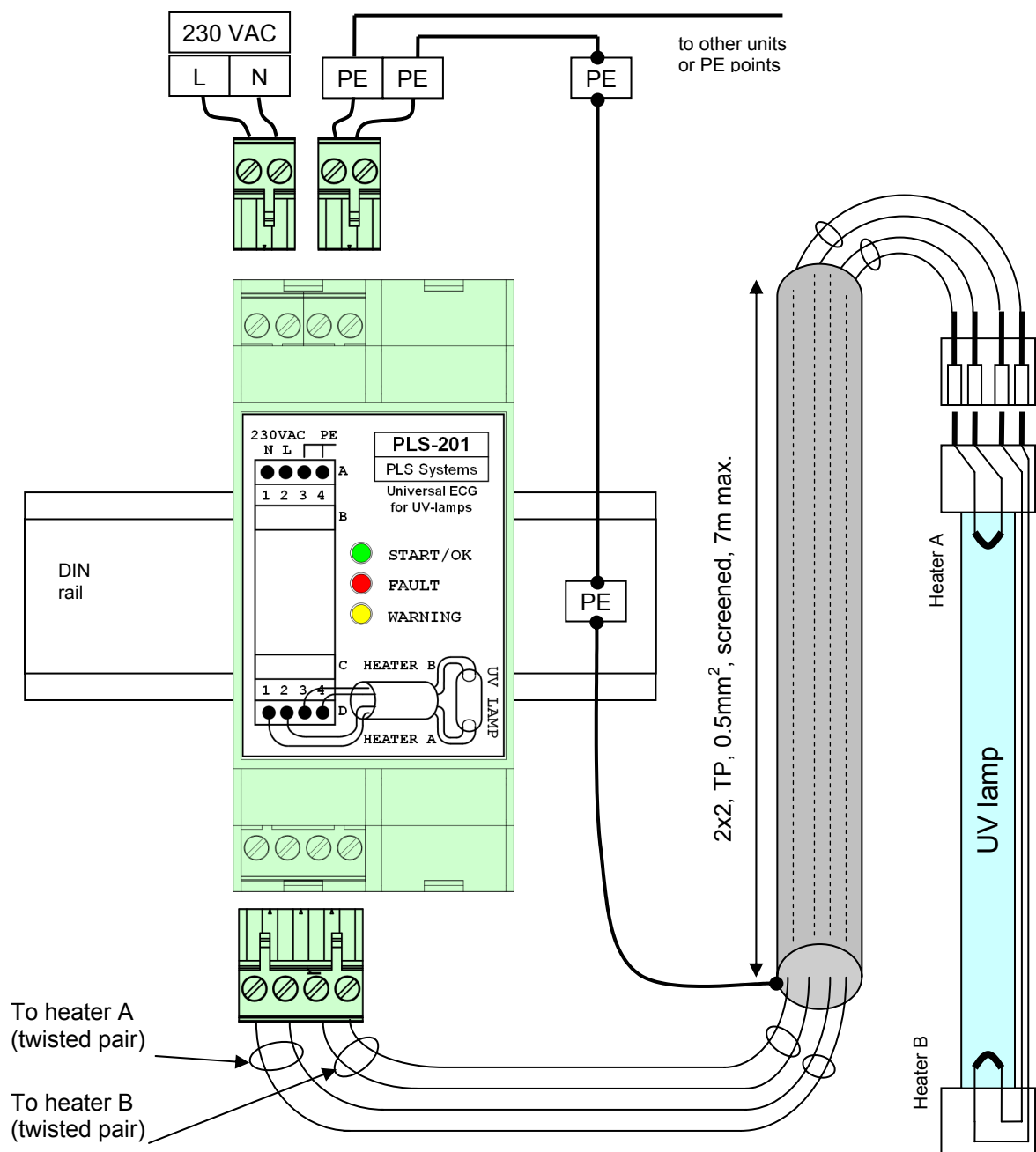


Fig. 2. Wiring diagram example of PLS-201

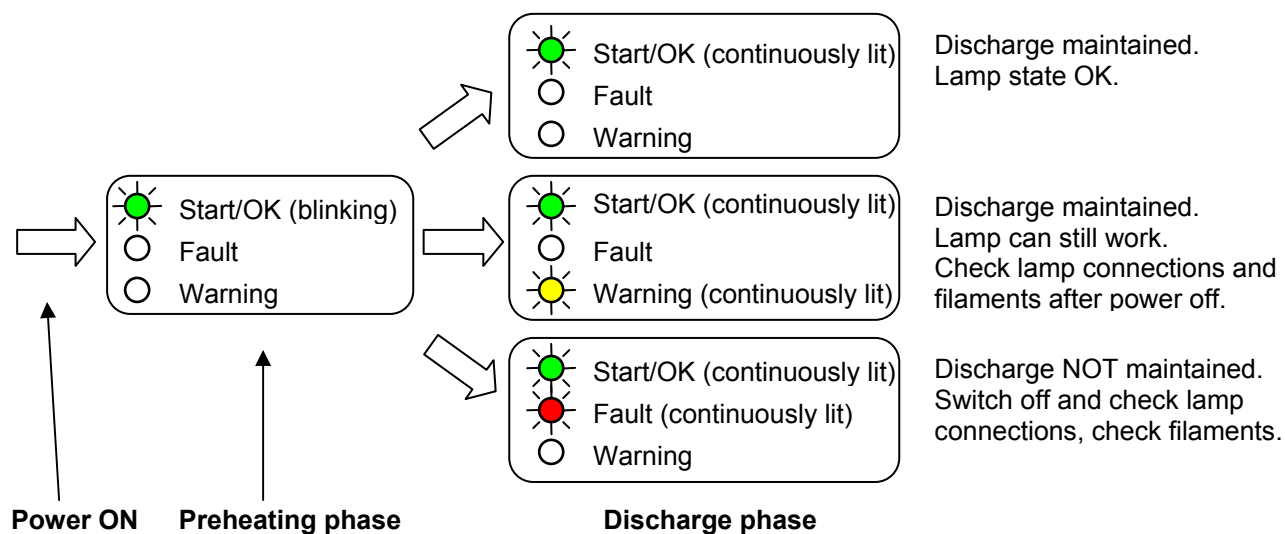


Fig. 3. Basic diagnostic procedure