

OmniCure®

UV Curing • In Control

OmniCure PLC2000

Intelligent External PLC Controller
for AC Series UV LED
Curing Systems



Complimentary accessory for the OmniCure® AC Series UV LED curing systems to provide a fully integrated solution

Intelligent digital control of the UV curing solution to ensure a repeatable UV process

Dynamic adjustment of settings with system information and error monitoring

Flexible operation of the OmniCure PLC2000 either locally or remotely through an automated system

Quick set-up, easy integration, and intuitive control features



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Maximum Flexibility and Process Control

The OmniCure® PLC2000 is an innovative product accessory specially designed to complement the OmniCure AC Series of high power UV LED curing systems. When connected to an OmniCure AC Series UV LED head, this multipurpose external controller device enables the immediate ability to intelligently manage, monitor, and control an LED system.

Providing unparalleled control of the OmniCure UV LED systems, the PLC2000 can be used to dynamically adjust the output intensity, exposure time, and on/off capabilities while providing system information and error monitoring. With flexibility of operating the PLC2000 locally or remotely through an automated system, the portable and compact PLC controller is well suited for use in manufacturing environments, laboratory or research & development applications.

The OmniCure PLC2000 features a comprehensive display of UV LED curing system information with LED indicators updating critical details such as power on and initialization states, as well

as the various modes of operation that are supported. Temperature, operational hours, intensity control, and timer/pulse output modes can be easily accessed and modified to provide unmatched performance control.

Supporting RS232 and RS485 communications, the PLC2000 is a robust accessory for the OmniCure AC Series of products and, when paired with a system, allows for multiple UV LED heads to be daisy-chained and accessed or controlled through a single computer terminal.

With quick set-up, easy integration, and intuitive features such as a door lock for safety assurance, the PLC2000 is a perfect accessory to complement the AC Series and provide a complete LED curing solution for your applications.



| FEATURES | BENEFITS |
|--|--|
| Intelligent digital control <ul style="list-style-type: none"> Intensity Exposure timer Pulsed operation | Unparalleled control to dynamically adjust to a wide range of settings: <ul style="list-style-type: none"> Control in 1% increments Set timed operation Fine-tune on/off illumination – pulse frequency or duty cycle |
| LCD Display | Easy access to UV LED system information and making changes to operational modes: <ul style="list-style-type: none"> Temperature and LED hours Programmability of different user modes |
| Remote or local operation | Flexibility to robustly support different configurations; Simple integration with no computer programming required for local operation |
| Control via RS485 or RS232 | Point-to-point or daisy-chain addressability |
| PLC fault indicators | Convenient monitoring with status and error identification |
| Powered from UV LED Head | Simplified connectivity with no electrical requirements |
| Plug and play | Auto detection and calibration with OmniCure® AC Series UV LED curing solutions |

| TECHNICAL SPECIFICATIONS | |
|-------------------------------------|---|
| Outer Dimensions (L x W x H) | 180 mm (7.07") x 91 mm (3.57") x 41 mm (1.63") |
| Connectivity | HD15 for connection to UV LED head and for customer PLC control port RJ11 – RS485 daisy-chain in and out |
| Controls | Local: LED On/Off, Intensity, exposure timer, pulse mode operation Remote: Function programmability via PLC commands |
| Alarms | Temperature, drive current continuity |
| Door Lock | Integrated safety feature to prevent accidental UV exposure |



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