

# control design supply

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## ULTRAVIOLET CURING SYSTEMS

Ultraviolet light is commonly used for the cross-linking or polymerization of inks, coatings, and adhesives for any manufacturing applications requiring fast drying techniques, or methods of coating which contain little or no solvents and are non-polluting. The entire process happens in seconds. Ultraviolet lights are useful, but gradually lose a significant portion of their energy output because of wear or accumulated dust, dirt, or other debris. This causes varying, uneven and progressively longer curing and drying times which creates non-uniform products and many problems. There are various techniques for measuring lamp intensity and output.

One method of tracking operating time on UV lamps is the use of Hour Meters. Lamp degradation has a negative effect on the quality of UV drying or curing process. Because of this reduction in lamp output, usage must be monitored and lamps replaced on a prescheduled basis.

The target customer is the OEM who produces the UV equipment or system. UV curing systems and IR Drying systems are used by Printers, Converters, Packagers, and Industrial Coaters worldwide. Because of the broad application of UV technology, other instruments are common in the UV curing system. These include tachometers, timers, hour meters, and counting devices.



Model 51



Model 88



Model 33



Model 722/732

