



To check and control UV curing processes, we have developed a radiation meter which can travel on the conveyor belt to simulate the sample.

Two LCD displays show:

- the total radiated energy
- the peak intensity
- the intensity

The photosensitive element is not activated by daylight. The spectral sensitivity of the element is tuned to UV curing processes.

During a test-run, the peak intensity and the total energy during exposure is stored. The stored values can be read at leisure at any time. Only when applying the reset button the memory is cleared to zero.

The flat design (total height is 22 mm) was selected in order to enable the user to take readings in almost all commercially available UV curing units.

A routine test shows:

- state of the lamp and reflector
- type of lamp used (normal or ozone-free)

A recorder output shows the intensity. If connected to a recorder in multistage systems, the meter travels through the system and at the same time the graph on the recorder shows immediately which of the many lamps and/or reflectors is weak, deteriorated, or extinguished completely.

On both sides of the instrument, M4 threads are provided to enable mounting the meter on a tripod for use in continuous testing operations.

In such applications, it is recommended to use rechargeable batteries instead of the standard 9 volt alkaline-manganese dry batteries. Provision is made for the use of commercially available battery-chargers.

Option

On the top of the meter, M3 threads have been installed which allow mounting of flexible or rigid fibre optics