**bluepoint 4**
with Process FLOW Control

**UV point source**

**System-Features**
- Adjustable lamp output
- High intensity
- Economical

**Advantages**
- High power
- Long lamp life
- Entry of complete program flows
- Short curing time
- Ease of use
bluepoint 4 is a high-performance point source for all applications that need maximum UV intensity. Due to its high intensity and the possibility to program complete exposure sequences with different intensities and waiting periods — shortest cycle or machining times can be realized especially in fully automated production lines.

The typical lamp life is approx. 3,000 hours (guaranteed lamp life 2,000 hours). When using a Hönle UV-Meter, it is possible to readjust automatically the lamp output in order to maintain the intensity. A slide out module at the front panel of the housing ensures an easy replacement of the lamp. A user-friendly menu-driven operation is possible through a touchsensitive keyboard.

**Applications**

bluepoint point sources are suitable for a large range of applications:

- Bonding, fixing or potting of components in the electronic, optical and medical-technical industry
- Fluorescent excitation for material testing; also suitable for automatic image processing
- High-intensity UV irradiation for chemical, biological and pharmaceutical purposes

**Lamp / shutter control**

The exposure time can be selected between 0.1 and 999.9 seconds. Alternatively, it is possible to enter the requested dose and bluepoint 4 calculates automatically the exposure time needed.

The display shows the values in mW/cm² and alternatively in mJ/cm² or in J/cm². Furthermore, the electrical lamp output can be adjusted in 1% steps from 60% to 100%. The unit memorizes operating hours and lamp running hours.

**Calibration**

Calibration can be carried out automatically with a Hönle UV Meter or with manual input. Moreover, the mode of operation „Power readjustment“ allows to adjust the current lamp power automatically in order to maintain a constant UV intensity.
Interfaces

bluepoint 4 has the following interfaces:

- PLC inputs: lamp on, shutter open, dispensing, start program run
- PLC outputs: unit switched on, UV ready, error, shutter open and a variable programmable output
- dry contact with selectable function for additional signals (shutter closed, warning, UV on, etc.)
- RS 232 interface for programming operating parameters, for control of the unit with PLC or PC and for transferring process programs.

Automatic program run

bluepoint 4 can program complete runs. The programs can be input via the control or via transmission of a text file written on a PC. 99 lines are available for programming the following:

- exposure sequences with different intensities
- dosage with variable parameters
- activation of external ‘handlings’ components
- waiting periods
- automatic readjustment of lamp power

Additional features

All parameter settings can be memorized on 6 storage locations and loaded when needed. The current parameter settings are maintained even after switching off the mains supply.

The unit disposes of extensive error and warning messages. With a keyboard interlock, it is possible to avoid unintentional modifications of parameters. Furthermore, bluepoint 4 has a standby function when the lamp is switched off. Language of menu texts can be chosen between German and English.

Light guides

The following light guides are available:

- Single light guide with the diameters 3 mm, 5 mm and 8 mm
- Double, triple and quadruple light guides with a diameter of the single arms of 3 mm each
- Standard lengths of 1 m and 1.5 m
- Differing lengths on request
- Glas fiber optic
- different types of filters available, see spectrum
<table>
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<th>Technical data</th>
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<td>max. UVA-Intensity *)</td>
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<td>Typical lamp life</td>
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<td>Timer setting range</td>
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<td>High-pressure mercury lamp</td>
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<td>Input current max.</td>
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<td>Dimensions (H x B x T)</td>
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*) measured with a Hönle UV Meter and test light guide

Typical UV-output development

Relative Intensity (%)

Lamp Life (h)