SITA CLEAN LINE BC
Monitoring Bath Contamination Inline
Typical contamination of industrial cleaning baths such as oils and greases can be excited with ultraviolet light to emit fluorescent radiation. The measured intensity of the fluorescence radiation increases with the oil and grease concentration. An integrated UV-light source stimulates the excitation of the fluorescence. A photo-detector measures the intensity of the resulting fluorescence radiation.
Stable Assurance of Cleanliness

Application

Monitoring the bath contamination and process oriented control of bath care measures.

- Assurance of parts cleanliness for follow-up processes such as coating, bonding, welding and hardening
- Economic process management through optimization of bath lifetime

www.sita-process.com
Process specific System Solutions

The measuring system SITA clean line BC is flexibly adjusted to each individual cleaning technology and detects slight traces of contamination in rinsing baths. Interfaces enable the integration into the plant control for monitoring bath care as well as the integration into quality management systems for complete documentation of the process development.

Upon the basis of a combined analysis of process and plant, SITA application engineers develop optimal and customized SITA clean line system solutions.

Technical Data

### Measuring module
- **Measured value:** Fluorescence intensity
- **Excitation**: 365 nm, max. 150 mW
- **Detector**: 460 nm
- **Operating voltage**: 24 V / 4 A
- **Housing**: Stainless steel 1.4301
- **Dimensions (WxHxD)**: 380 x 300 x 160 mm
- **Weight**: approx. 10 kg
- **Acceptable surrounding temperature**: up to 35 °C
- **Acceptable liquid temperature**: up to 60 °C
- **Wetted materials**: Stainless steel, PTFE, PFA, FPM, quartz glass
- **Interfaces**: Operating voltage 24 V (Binder M12), communication interface Panel PC
- **Fluidic connections**: Sample supply (p = 2...6 bar): G1/4" internal thread

### Controller module
- **Device type**: Panel PC with touch screen IP65, stainless steel
- **Operating voltage**: 24 V / 1 A
- **Housing**: Stainless steel 1.4301
- **Dimensions (WxHxD)**: 379 x 282 x 130 mm
- **Weight**: 7 kg
- **Acceptable ambient temperature**: 0 °C to 45 °C
- **Interfaces**: Operating voltage 24 V (Binder M12), 2x Ethernet interface RJ45 IP65, 2x USB interface, expandable with interface modules (e.g. current loop interfaces)

---

*SITA Messtechnik GmbH*
Goslarer Straße 63
01217 Dresden
Germany

Tel. + 49 (0)351 871 8041
Fax + 49 (0)351 871 8464
www.sita-process.com
info@sita-process.com