SITA

Simple Control of Contamination Levels in Cleaning and Rinsing Processes

SITA ConSpector

Contamination under Control

SITA ConSpector

Advantages

Features

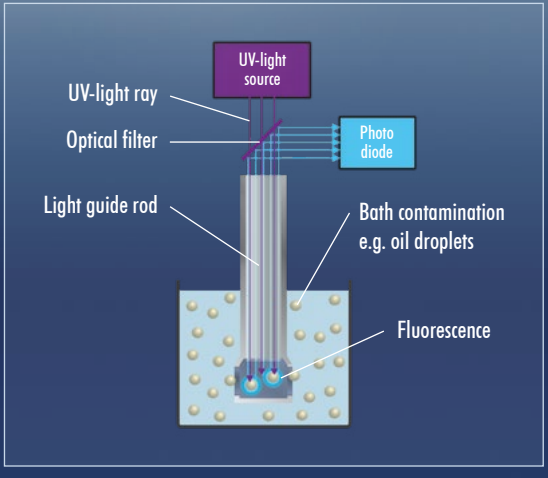
- Mobile and robust measuring device for flexible use at the process and in the laboratory
- Intuitive operation: simple and fast measurement
- Automatic calibration on fresh cleaning solution

Benefits

- Objective evaluation of the bath contamination
- Cleaning process efficiency by optimizing the bath lifetime
- Control of bath care measures

Measuring Principle

Typical contamination in cleaning processes such as oils, greases and cooling lubricants fluoresce when excited by an UV-light source. The SITA ConSpector utilizes this effect to detect the contamination level of cleaning baths.

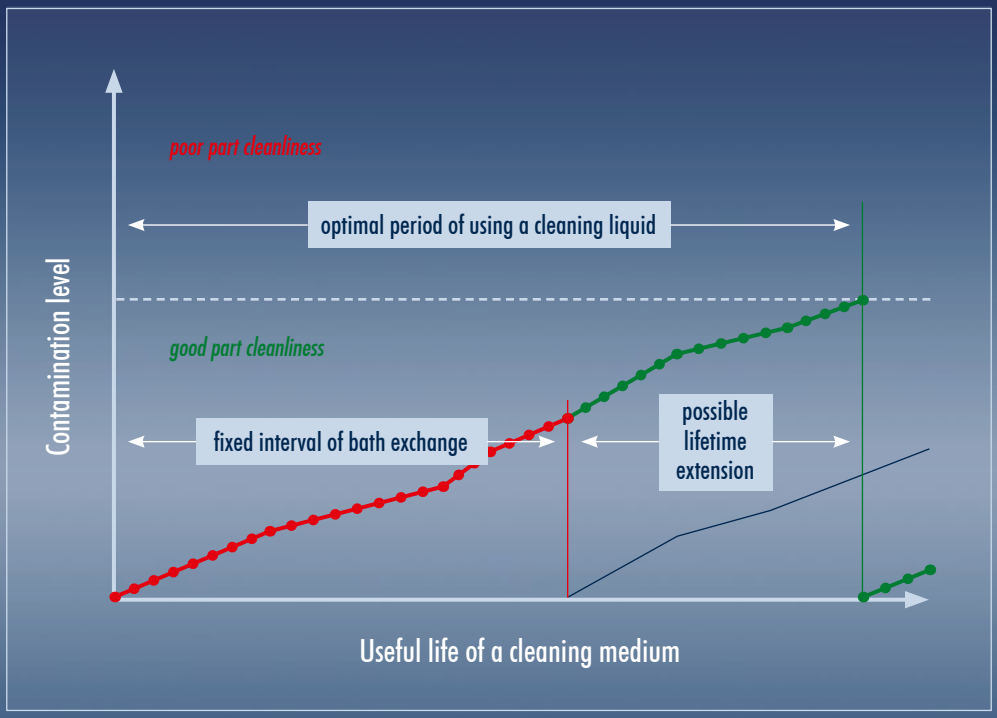


Contamination under Control

Application

Increasing bath operation time leads to a build-up of contamination removed from parts. High contamination levels in cleaning or rinsing media reduce the cleaning performance and cause quality problems. The SITA ConSpector detects the contamination level by measuring the fluorescence of process liquids. Typical contaminations include oils, greases and cooling lubricants.

The measured contamination level is used for an objective evaluation of the bath condition. The time for bath replacement can be quickly and objectively determined and the effects of bath care measures can be controlled. The mobile measuring device can be used directly at the cleaning plant or in the laboratory.



SITA ConSpector

For Simple Control of Contamination Levels in Cleaning and Rinsing Processes

SITA ConSpector

Technical Data

Temperature

Measuring range	0 ... 80 °C
Resolution	0.1 K

Fluorescence intensity

Measuring range	0 ... 40,000
Max. deviation	max. 0.5 % of measuring range
Resolution	1 digit
Excitation*	365 nm, max. 150 mW
Detection*	460 nm

* Standard values

Oil concentration

Measuring range	user-defined

Power supply

Li-Ion-battery	3,6 V / 1,950 mAh
	ca. 8 h operating time
Mains adapter / USB	100...240 V / 5 V
Power consumption	max. 2.5 W

Interface, memory, dimension, weight

USB-interface	data transfer
Display	LCD, illuminated
Measuring profiles	254
Memory	8,000 measuring values/profile
Dimensions (LxWxH)	
Hand-held device	129x82x48 mm
Sensor head	140x50x30 mm
Weight (device)	530 g

Windows-Software SITA-ProcessLog (optional)

- Management and graphical analysis of saved measuring data
- Documentation and evaluation of the bath contamination
- Simply and easy preparation of measuring reports
- Controlling the measurement via PC
- Simple generation of concentration curves based on defined samples

Contact

SITA Messtechnik GmbH
Gostritzer Straße 63
01217 Dresden
Germany

Tel.: +49 (0)351 8 71 8041
Fax: +49 (0)351 8 71 8464
info@sita-process.com
www.sita-process.com

Design: augensturm | Photography: Jürgen Jeibmann M05-100005 / Version 1.0