



SEIBOLD Wasser-Analysatorenfabrik GmbH

Industriepark Donau, Inkustrasse 1-7/6

A-3400 Klosterneuburg (EU)

Phone: +43 2243 20787

Mail: office@seibold-wasser.com

www.seibold-wasser.com

COMPOSER Alban Berg – Online Analyser for Total Copper and Zinc



Basic Information

This process analyser was developed and built for industrial waste and drinking water Industry. The main advantages are the combined measurement in one measurement step and the use of non-toxic and non-hazardous reagents.

Industry. Copper and Zinc are used in alloys (brass), electroplating, foundries, catalysts, welding rods and coinage, and can be found in electronic equipment, construction materials, aerospace equipment and consumer goods such as batteries, paints and ceramics.

Continuous Analysis. Reliable Results.



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Drinking water. Copper concentrations in drinking water vary widely, with the primary source most often being the corrosion of interior copper plumbing. A guideline value of 1.5 mg/litre was recommended for copper in drinking water.

Method

The Metal is measured as chelate complex between metal ions in the wastewater and sensitive Spectro-photometric reagent dye. Change of the intensity of the visible light throughout measurement chamber containing formed metal complex is directly proportional to metal concentration.

Advantage of this system

- Non dangerous chemistry and reagents.
- Robust design.
- Minimal maintenance.
- Easy handling.
- High accuracy and precision.
- Suitable for mission critical applications.
- Automated cleaning and calibration.

System information	
Measurement parameter	Copper (total Cu) Zinc (total Zn)
Measurement application	Industrial wastewater, Drinking water.
Measurement ranges	0.01 – 1.00 (10.00) mg/L Cu 0.01 – 1.00 (10.00) mg/L Zn
Accuracy and Precision	± 3 % (based on full scale)
Resolution	0.05 mg/L
Calibration and cleaning	automated
Seibold Reagent kit	Buffer and Dye