

COMPOSER Franz von Suppe - SEIBOLD Online-Analyser

Method

Metal is measured as chelate complex between metal ions in the waste water and sensitive spectrophotometric

reagent dye. Change of the intensity of the visible light throughout cuvette containing formed metal complex is directly proportional to metal concentration.

Optional Modules :

Aluminium, Arsenic, Cadmium, Chromium, Cobalt, Copper, Iron, Lead, Magnanese, Nickel, Tin, Zinc



Advantage of the system

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

System information - Aluminium (Al)	
Measurement variable	Aluminium (Al)
Measurement application	Drinking water, river monitoring, semiconducting industry,
Measurement ranges	0.005 – 1.000 mg/L (ppm) other ranges possible upon request
Accuracy and Precision	± 3 % (based on full scale)
Resolution	0.005 mg/L
Calibration and cleaning	automated
Seibold Reagent kit	Buffer and Dye Provided by Sigma Aldrich

System information - Arsenic (As)	
Measurement variable	Arsenic (As)
Measurement application	Drinking water, river monitoring, electroplating and semiconducting industry,
Measurement ranges	1-100ppb other ranges possible upon request
Accuracy and Precision	± 3 % (based on full scale)
Resolution	0.5ppb
Calibration and cleaning	automated
Seibold Reagent kit	Buffer, Conditioner and Dye Provided by Sigma Aldrich

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System information - Cadmium (Cd)

Measurement variable	Cadmium (Cd)
Measurement application	Drinking water, river monitoring, electroplating and semiconducting industry
Measurement ranges	0.005 – 1.000 mg/L (ppm) other ranges possible upon request
Accuracy and Precision	± 3 % (based on full scale)
Resolution	0.005 mg/L
Calibration and cleaning	automated
Seibold Reagent kit	Buffer and Dye Provided by Sigma Aldrich

System information - Chromium (Cr)

Measurement variable	Chromium (Cr); Cr tot; Cr VI.
Measurement application	Drinking water, river monitoring, electroplating and semiconducting industry
Measurement ranges	0.005 – 1.00 mg/L (ppm) other ranges possible upon request
Accuracy and Precision	± 3 % (based on full scale)
Resolution	0.005 mg/L
Calibration and cleaning	automated
Seibold Reagent kit	Buffer and Dye Provided by Sigma Aldrich

System information - Cobalt (Co)

Measurement variable	Cobalt (Co)
Measurement application	Drinking water, river monitoring, electroplating and semiconducting industry
Measurement ranges	0.01 – 1.00 mg/L (ppm) other ranges possible upon request
Accuracy and Precision	± 3 % (based on full scale)
Resolution	0.01 mg/L
Calibration and cleaning	automated
Seibold Reagent kit	Buffer and Dye Provided by Sigma Aldrich

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System information - Copper (Cu)

Measurement variable	Copper (Cu)
Measurement application	Drinking water, river monitoring, electroplating and semiconducting industry
Measurement ranges	0.01 – 1.00 mg/L (ppm) other ranges possible upon request
Accuracy and Precision	± 3 % (based on full scale)
Resolution	0.01 mg/L
Calibration and cleaning	automated
Seibold Reagent kit	Buffer and Dye Provided by Sigma Aldrich

System information - Iron

Measurement variable	Iron (total Fe ²⁺ /Fe ³⁺ or Fe ²⁺)
Measurement application	Drinking water, river monitoring, electroplating and semiconducting industry
Measurement ranges	0.005 – 1.00 mg/L (ppm) other ranges possible upon request
Accuracy and Precision	± 3 % (based on full scale)
Resolution	0.005 mg/L
Calibration and cleaning	automated
Seibold Reagent kit	Buffer and Dye Provided by Sigma Aldrich

System information - Lead (Pb)

Measurement variable	Lead (Pb)
Measurement application	Drinking water, river monitoring, electroplating and semiconducting industry
Measurement ranges	0.005 – 1.00 mg/L (ppm) other ranges possible upon request
Accuracy and Precision	± 3 % (based on full scale)
Resolution	0.005 mg/L
Calibration and cleaning	automated
Seibold Reagent kit	Buffer and Dye Provided by Sigma Aldrich

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System information - Manganese (Mn)	
Measurement variable	Manganese (Mn)
Measurement application	Drinking water, river monitoring, electroplating and semiconducting industry
Measurement ranges	0.005 – 1.00 mg/L (ppm) other ranges possible upon request
Accuracy and Precision	± 3 % (based on full scale)
Resolution	0.005 mg/L
Calibration and cleaning	automated
Seibold Reagent kit	Buffer and Dye Provided by Sigma Aldrich

System information - Nickel (Ni)	
Measurement variable	Nickel (Ni)
Measurement application	Drinking water, river monitoring, electroplating and semiconducting industry
Measurement ranges	0.005 – 1.00 mg/L (ppm) other ranges possible upon request
Accuracy and Precision	± 3 % (based on full scale)
Resolution	0.005 mg/L
Calibration and cleaning	automated
Seibold Reagent kit	Buffer and Dye Provided by Sigma Aldrich

System information - Tin (Sn)	
Measurement variable	Tin (Sn)
Measurement application	Drinking water, river monitoring, electroplating and semiconducting industry
Measurement ranges	0.05 – 2.00 mg/L (ppm) other ranges possible upon request
Accuracy and Precision	± 3 % (based on full scale)
Resolution	0.01 mg/L
Calibration and cleaning	automated
Seibold Reagent kit	Buffer and Dye Provided by Sigma Aldrich

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System information - Zinc (Zn)	
Measurement variable	Zinc (Zn)
Measurement application	Drinking water, river monitoring, electroplating and semiconducting industry
Measurement ranges	0.005 – 1.00 mg/L (ppm) other ranges possible upon request
Accuracy and Precision	± 3 % (based on full scale)
Resolution	0.005 mg/L
Calibration and cleaning	automated
Seibold Reagent kit	Buffer and Dye Provided by Sigma Aldrich

