



SEIBOLD Wasser-Analysatorenfabrik GmbH

Industriepark Donau, Inkustrasse 1-7/6

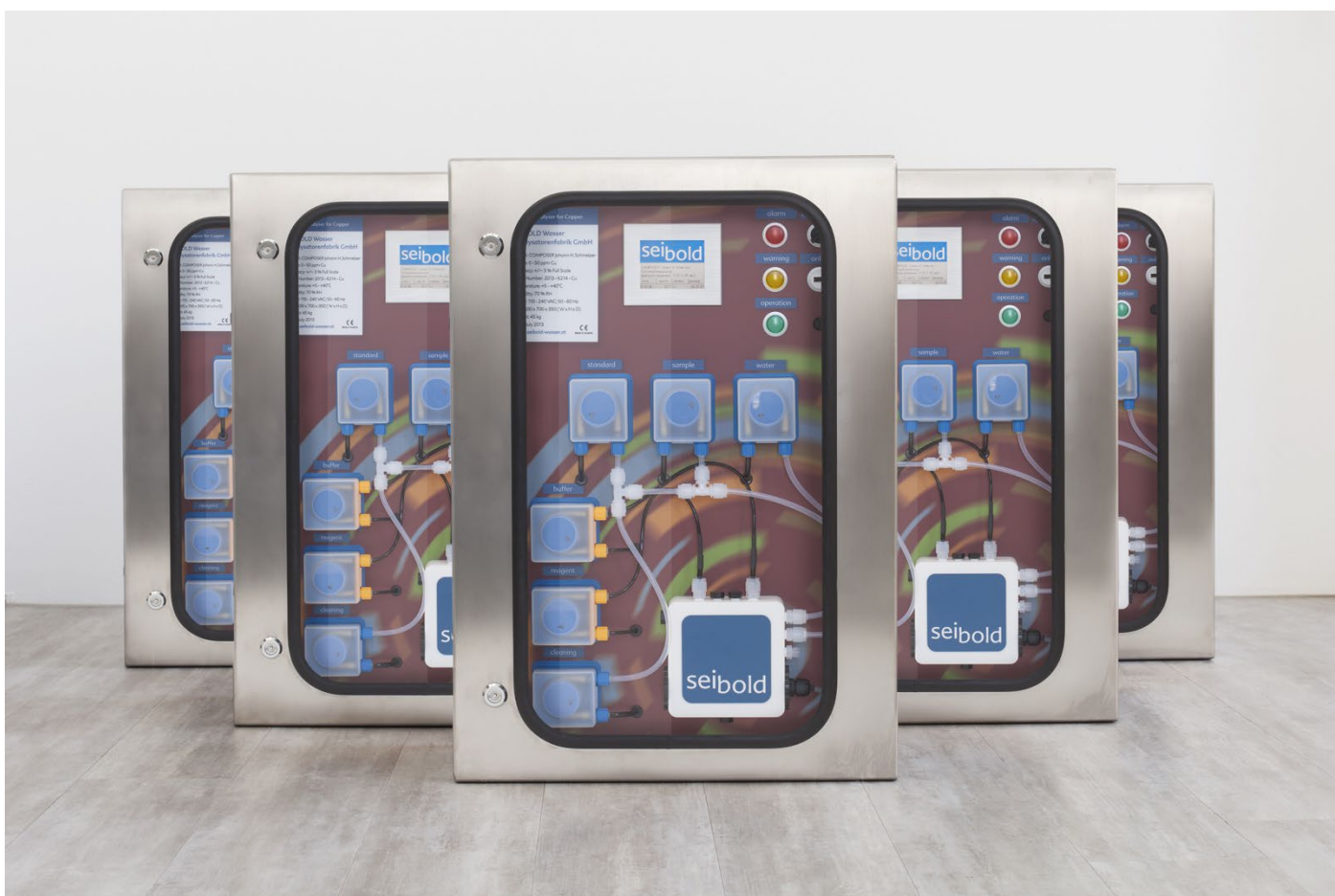
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COMPOSER Joseph Lanner - Online-Analyser for Iron and Manganese



Basic Information

This Instrument was developed and built for Drinking Water Industry. The main advantage is the use of non-toxic and non-hazardous reagents.

Drinking water. Iron may be present in drinking-water because of the use of iron coagulants or the corrosion of steel and cast-iron pipes during water distribution. There is usually no noticeable taste at iron concentrations below 0.3 mg/litre, and concentrations of 1–3 mg/litre can be acceptable for people drinking anaerobic well water. Manganese is naturally occurring in many surfaces water and

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groundwater sources, particularly in anaerobic or low oxidation conditions. A provisional health-based guideline value of 0.5 mg/litre should be adequate to protect public health.

Toxicity. Iron is an essential element in human nutrition. Portable water should contain iron not more than 0.2 mg/L. Ground water may contain iron at concentrations of several milligrams per litre.

Method

Metal is measured as chelate complex between metal ions in the wastewater and sensitive spectrophotometric 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 the system

- Non-toxic chemistry.
- Robust design.
- Minimal maintenance.
- Easy handling.
- High accuracy and precision.
- Suitable for mission critical applications.

Automated cleaning and calibration.

System information	
Measurement variable	Iron (total Fe) Manganese (Mn)
Measurement application	Drinking water.
Measurement ranges	0.005 – 1.00 mg/L (ppm) Fe 0.005 – 1.00 mg/L (ppm) Mn
Accuracy and Precision	± 3 % (based on full scale)
Resolution	0.005 mg/L
Calibration and cleaning	automated
Seibold Reagent kit	Buffer and Dye