

# “Johann H. Schmelzer” Copper Analyser



The online analyser “Johann H. Schmelzer” from Seibold's Composer analyser family continuously determines the copper concentration.

Robust, proven and tested measurement technology affords high precision and sensitivity while keeping instrument complexity low. The result is a cost-efficient measurement.

Easy and safe handling thanks to non-toxic reagents.

- Robust design
- High accuracy
- Low cost per measurement
- Minimal Maintenance
- Easy handling

## Method

The analyser adds a reagent specific for copper to the sample. If copper ions are present, a stable chelate complex forms between metal and reagent. This complex with its characteristic colour is detected precisely in the spectrophotometer. The intensity is directly proportional to the concentration of copper.

The analyser takes care of regular automatic cleaning and calibration.

## Applications

- Drinking water
- River water
- Process water  
(semiconductors)

## Technical data

### **Analyser “Johann H. Schmelzer”**

Measuring method	Spectrophotometric
Measuring interval	Continuous or discontinuous (programmable or external start)
Measuring ranges	0.01~1.00 mg/l (ppm), other ranges on request
Accuracy	± 3% based on full scale
Resolution	0.01 mg/l
Calibration	Automatic
Sample volume	75~200 ml per measurement
Signal output	4~20 mA
Power supply	230 V AC ± 10%, 50 Hz, optional 115 V AC oder 24 V DC
Power consumption	Approx. 50 VA
Sample temperature	5~40 °C
Operating conditions	Ambient temperature, humidity up to 95%, non-condensing
Protection class	IP 66
Dimensions	500 mm × 700 mm × 350 mm
Weight	Approx. 35 kg

**Product code 749 017**

### **Special Models**

Also available as dual-parameter analyser

Copper & Nickel

Copper & Iron



Obermühlstraße 70  
82398 Polling - Germany  
[www.gimat.de](http://www.gimat.de)