

- *On-line analyzer*
- *Suitable for power-plants and ultra-pure water generation plant*

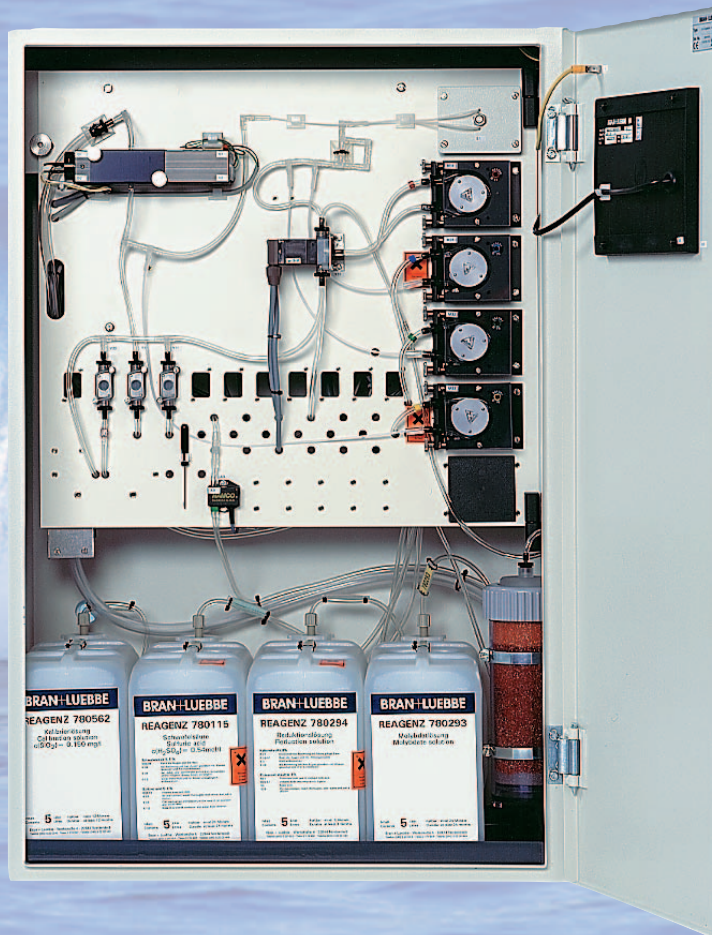
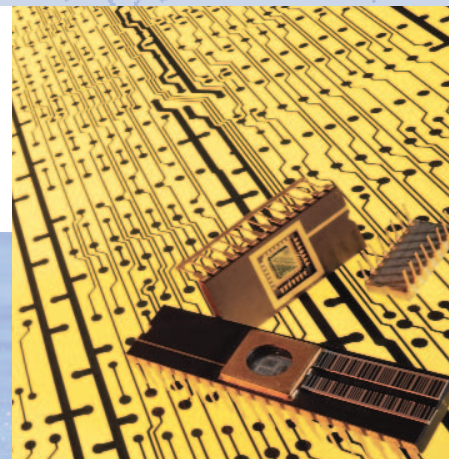
Applications

- *Silica in boiler water*

The Monitor 90 S Silikometer was specially designed for automatic water analysis in power generation and ultra-pure water generation plants.

Monitor 90 S measures the concentration of silica continuously, for example in boiler feed water, allowing a constant water supply at optimum quality to be guaranteed. The compact housing accommodates up to six on-line sample streams and a seventh measuring point for manual samples, thus providing particularly economical and space-saving operation.

Monitor 90 S Silikometer

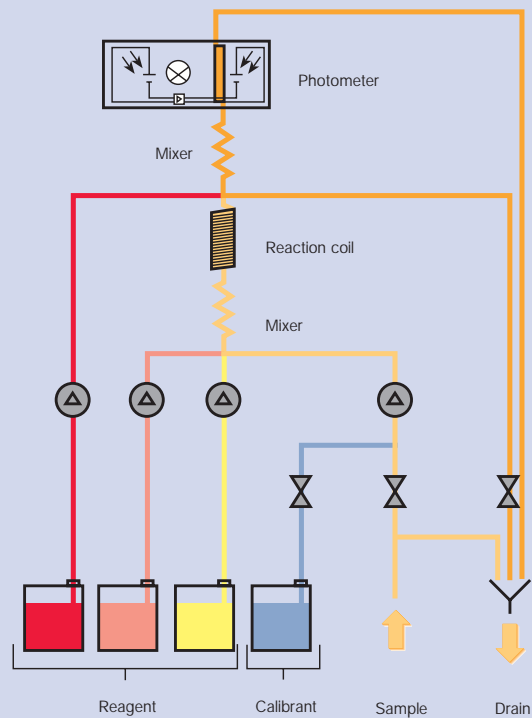


Microprocessor-controlled on-line analyzer with up to 6 sample streams and additional manual sampling point for the fully automatic measurement of silica in boiler water. Measuring ranges from 0-5 ppb SiO_2 .

The Monitor 90 S Silikometer combines high precision with proven reliability and economy.

Advantages

- Fully automatic operated
- Minimal operating costs through small reagent consumption
- Precise measurement
- High sensitivity
- Easy operation
- Long term stability by regular automatic calibrations
- Microprocessor engineering
- Automatic selfcheck



Example for silica determination

Measuring principle

Photometric Measurement

The sample is mixed with one or more reagents to adjust the pH, mask possible interferences and form a colored complex with the substance being measured. When the reaction is complete the light absorbance of the complex is measured at a specific wavelength and this value is used to calculate the concentration.

Technical Data

Measuring cycle

Typ. 15 min.

Range

0-5 to 0-1000 ppb

Other ranges on request

Precision

typ. < 1.5% of range

Drift

typ. < 0.2% of range

Reagent supply

at least 9 weeks

No. of sample streams

1-6, plus 1

Output signal

0/4-20 mA,
load 400 Ohm
linear response
galvanically separated

Option

RS 232,
RS 485 bus interface

Limit signal

1 floating contact
per sample stream
max. load 25 VAC,
60 V DC, max. 3 A

Status/Alarm signal

1 floating contact
max. load 25 VAC,
60 V DC, max. 3 A

Sample

Pressure
max 0.1 bar
Temperature
2 - 35°C
Volume
2 - 10 l/h
free of solids and oil
Connection
Swagelok: pipe 6 x 1 mm

Waste connection

pressure-free,
tubing 10 x 2 mm

Power supply

Voltage
115/230 V AC
Tolerance
±10%
Frequency
50 or 60 Hz

Power consumption

approx. 150 VA

Environmental temperature

15 - 35°C

Colour

grey/white (RAL 9002)

Mounting

wall mounting

Protection class

IP 54 / NEMA 13
IP 65 / NEMA 4 (Electronics)

Weight

at least 60 kg

Dimensions (HxWxD)

900x600x310 mm

Optional junction box

1200x600x310 mm

* multi-channel models