

# Silikometer

The PowerMon Silikometer is a versatile applicable on-line measuring instrument. It guarantees a permanent optimal water quality by the continuous supervision of the silica concentration in boiler feed water or during water treatment.

Apart from higher precision and shortening of the measuring cycles the PowerMon offers a special highlight: For the measurement of most diverse parameters (e.g. oxygen, pH, redox, conductivity etc.) the connection of various sensors via interface is possible!

For the individual sensors the PowerMon automatically takes over the functions of a transducer. It is also possible to set the separate results against each other.

A remote supervision enables the permanent control of the correct function of your plant. The highest possible data transfer over the interfaces, as well as the operation of the PowerMon via the touch screen user interface ensures an easy and user friendly operation.



## Applications

- power plants
- chip-industry
- ultrapure water treatment
- supervision of boiler feed water
- and others

## Advantages

- precise results
- connection of external physical sensors and actuators
- fully automatic operation
- easy, comfortable operation
- fast data transfer
- self-monitoring system
- remote maintenance and network ability
- graphic user interface with interactive Touch Screen operation
- update of the operating software or download of data by USB stick
- minimum operating cost by small reagent consumption
- second measuring point without surcharge
- operation also possible without housing



The compact and modular design of the PowerMon can contain up to six on-line measuring points in one device and enables a space-saving and economic operation



Distribuído por:

**AxFlow**  
*fluidity.nonstop*

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## Technical Data

### MEASURING METHODS

cyclic, colorimetric

### MEASURING CYCLE

min. 10 min / typical 15 min

### MEASURING RANGE

0-5 ppb

to 0-1100 ppb

Further parameters and measuring ranges on request

### PRECISION

3% or 0.1 ppb  
(whatever is higher)

### DETECTION LIMIT

100 ppt (MB 0-5 ppb)

### DRIFT

typ. < 0.2% of measuring range (end of value)

### REAGENT SUPPLY

typ. 12 weeks  
depending on range

### NUMBER OF MEASURING POINTS

max. 6

### OUTPUT SIGNAL

0/4-20 mA  
max. load 500 OHM  
characteristic curve:  
linear/logarithmic  
galvanically isolated

### INTERFACES

USB / Ethernet  
Option:  
modem: analog, GSM, ISDN,  
UMTS  
Profibus DP, Modbus RTU

### RELAY CONTACTS

4/12 potential free contacts  
free allocable  
(e.g. alarm contact)

### DIGITAL INPUTS

4/12 e.g. activating and deactivating of measuring points, system control

### SAMPLE

pressure-free

Temperature : 15 - 45°C  
(288 - 308 K)

Flow : 3 – 10 l/h

free from suspended matter and oil

Connection : tube, flexible (ID 1.5 - 3 mm)

### DRAIN

pressure-free  
tube, flexible  
(ID 10 mm)

### POWER SUPPLY

85...264 VAC at  
47...63 Hz

**POWER CONSUMPTION**  
max. 50 VA

**ENVIRONMENTAL TEMPERATURE**  
15 - 35°C (288 - 308 K)

**INSTALLATION**  
wall-mounted

**PROTECTION CLASS (EN 60529)**  
IP 65 ( electronics )  
IP 54 ( with housing )  
IP 21 ( with jacket )

**WEIGHT**  
housing with reagent cabinet  
53 - 60 kg without reagents

### DIMENSIONS

**(HEIGHT X WIDTH X DEPTH)**  
housing: 700x600x320 mm  
with reagent cabinet:  
1100x600x354 mm

For further information please contact our Technical Support Department

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