

PowerMon

The No. 1 Innovation

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 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.



SPX Process Equipment

Silikometer



PowerMon Silikometer

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



Field of application

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

Advantages

- fully automatic operation
- easy, comfortable operation
- fast data transfer
- precise results
- self-monitoring system
- minimum operating cost by small reagent consumption
- connection of up to 100 external, physical measuring sensors
- remote maintenance and network ability
- update of the operating software or download of data by USB stick
- graphic user interface with interactive Touch Screen operation
- second measuring point without surcharge
- operation also possible without housing

Technical data

Measuring method

colorimetric, cyclic

Measuring cycle

min. 10 min / typical 15 min

Measuring range

0-5 to 0-1100 ppb
Further measuring ranges on request

Precision

3% or 0.1 ppb
(whatever is higher)

Detection limit

100 / 150 ppt

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
Profi Bus DP

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 or
120...370 VDC

Power consumption

max. 150 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