

# Ionometer

The PowerMon Ionometer is a versatile applicable on-line measuring instrument, which is used for the monitoring of the legally prescribed limit value in the outlet of municipal and industrial purification plants.

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.

## Applications

- Ammonium in waste water
- Chloride in surface water
- Fluoride in beverage industry
- and others

In North America:



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## 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

# PowerMon Ionometer



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



## Technical Data

### MEASURING METHODS

potentiometric

### MEASURING CYCLE

at least 6 min.

### MEASURING RANGE

$\text{NO}_3^-$  0 - 1 to 0 - 500 mg N/l  
 $\text{F}^-$  0 - 1 to 0 - 1.000 mg/l  
 $\text{Cl}^-$  0 - 0,1 to 0 - 10.000 mg/l  
 $\text{NH}_4^+$  0 - 2,5 to 0 - 1.000 mg/l  
 $\text{K}^+$  0 - 1 to 0 - 10.000 mg/l

Further parameters and measuring ranges on request.

### PRECISION

typ. < 5% of measuring range (end of value)

### DRIFT

typ. < 1% of measuring range (end of value)

### REAGENT SUPPLY

for approx. 3 weeks

### 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

~ 42 VA (max. 90 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

**SPX**

NORTH AMERICA DISTRIBUTION



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