

Kolorimeter

The PowerMon Kolorimeter is a versatile applicable on-line measuring instrument. It guarantees a permanent optimal water quality by the continuous supervision of the legally prescribed limit value for total phosphate and ortho-phosphate 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

- Aluminium and manganese in drinking water treatment
- Phosphate in waste water
- Cyanide in steel mills
- Nitrate in river 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

PowerMon Kolorimeter



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

cyclic, colorimetric

MEASURING CYCLE

typ. 10 - 15 min.

MEASURING RANGE

PO4

3- 0 - 0,5/6,0 mg/l

Cl₂ 0 - 0,2/3,0 mg/l

Fe 0 - 0,2/3,0 mg/l

Al 0 - 0,1/1,0 mg/l

Mn 0 - 0,1/2,0 mg/l

Cu 0 - 0,03/1,0 mg/l

Further parameters and measuring ranges on request

PRECISION

depending on the application*

DRIFT

depending on the application*

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 - 318 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. 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

For further information please
contact our Technical Support
Department

SPX

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