

!!! Up to 6 channels !!!

PowerMon S

Advantages

The PowerMon S analyzer is a compact closed multi-component measuring system. It bases on the spectroscopic measuring principle. The usability could be enhanced perceptible. Even so the costs for this analyzer could be reduced drastically.

- One PowerMon S replaces several single-parameter analyzers
- Pre-calibrated for quick and easy installation: needs only a simple on-site adjustment to local sample conditions
- Simple maintenance
- Low reagent consumption
- Long maintenance intervals
- Enhanced remote diagnostics and modem control referring to DiaMon

- Multi-parameter on-line analyzer
- Measurement of Total N and Total P
- Measurement of DOC, COD
- Measurement of $\text{NH}_4\text{-N}$ / $\text{NO}_3\text{-N}$ / $\text{PO}_4\text{-P}$
- For waste water treatment plants, rivers, lakes and coastal waters

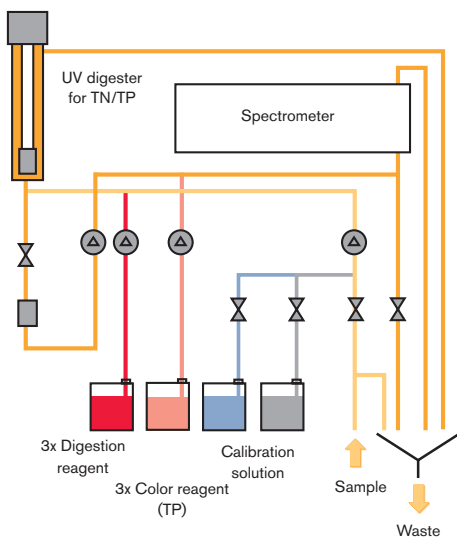
- Simple operation with the well-known PowerMon touch screen.
- CanBus, Profibus DP, Modbus RTU, LAN and modem
- Better Remote Control facilities in comparison with the previous model
- The connection of more sensors by transmitters

PowerMon S

The relationship between the concentration of nitrogen compounds in waste water and their influence on the ecosystem has been increasingly realised in the last few years. Phosphorus is present in various forms both in natural water sources and in waste water: it may take the form of ortho-phosphate, inorganic polyphosphates or organic phosphorus compounds.

As a result, waste water treatment plants aim to remove as much of the nitrogen and phosphorus content as possible before the treated water is returned to nature. Monitoring total N and P in the final effluent is an essential part of the control process.

The PowerMon S is the ideal instrument for providing a continuous measurement of these important parameters.



Flow diagram of the PowerMon S

Technical Data

Typical ranges

(user-selectable)

0 - 0,5 ... 0 - 20 mg/l PO₄-P
 0 - 1 ... 0 - 25 mg/l NH₄-N
 0 - 10 ... 0 - 25 mg/l NO₃-N
 0 - 50 ... 0 - 200 m⁻¹ SAC

0 - 0,5 ... 0 - 3 mg/l NO₂-N
 0 - 10 ... 0 - 50 mg/l O₂ COD
 0 - 5 ... 0 - 100 mg/l tot. N
 0 - 0,5 ... 0 - 20 mg/l tot. P

Accuracy (typical)

Between
 ≤ 2 and ≤ 5 % FS
 depending on the measured
 component

Drift per 24 h

≤ 1% of full range

Number of sample streams

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
 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
 5 - 45°C (278 - 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

5 - 35°C (278 - 308 K)

Installation

wall-mounted

Protection class (EN 60529)

IP 65 (electronics)
 IP 54 (standard)
 IP 65 (as option)

Weight

50 kg without reagent cabinet
 + 16 kg per reagent cabinet
 (without reagents)

Dimensions (HxWxD)

790x600x320 mm
 + 460x600x354 mm
 (per reagent cabinet)