

## dsc compact 2000



### Description

Fully automatic measuring and control system for pH and free chlorine (and optionally ORP and temperature). Potentiostatic chlorine measurement with ASR electronic sensor cleaning ensures the precise and reliable control of swimming pool disinfection for any type and size of pool. The controller is supplied pre-mounted and wired on a PVC backboard, complete with measuring cell (choice of closed or open cell) and electrodes, flow switch and sample water strainer, ready for installation.

### Specification

Microprocessor-controlled measuring and control equipment for free chlorine, pH, \*ORP (redox) and \*temperature display, designed as a self-optimizing controller with alphanumeric backlit LCD display.

Control outputs Chlorine / pH: ON / OFF, pulse frequency, pulse width control, 3-point controller, P, PI-selectable. Interface RS 485. Optional remote communication and printer facilities are available.

With electronic sensor cleaning system - TCS. 2 or \*3 sensor cables (pH, free chlorine, \*ORP). Line voltage: 85 - 265 V / AC, 50/60 Hz  
\*denotes optional 4 channel measuring system adding redox and temperature

### Control features

The dsc compact 2000 meets with the high demands set on measuring and control technology for swimming pools and whirlpools today. It has been designed to drive all conventional dosing systems.

\*3-position controller dosing system, P/PI/PID can be selected

\*Pulse frequency and pulse length controller for a proportional drive of the dosing systems

\*Control characteristic: P or PI On/off switch for electrical consumers

### Communication

The instrument features a busable digital RS 485 interface as standard equipment. The RS 485 interface allows the interconnection of several instruments, thus forming a unit bus that can be visualized on a Windows-compatible PC with the help of the DinoWin programme.

For remote monitoring via BMS, the dsc compact 2000 can be fitted with an optional 4 channel 0/4-20mA output card. This accessory is also used to connect the controller to the optional Gaffey 'T-mac' web based monitoring system, allowing the controller readings and performance to be monitored via any PC with an internet connection (log-in with username and password required).

# Technical Information

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Compact measuring and control unit with central microprocessor, 2- or 3-position controller incl. computer interface. A choice of two types of sample cell are available.

Supplied pre mounted and wired on a white PVC backboard.  
Dimensions .H 720 x W 600 x 8 mm

### Potentiostatic measurement of chlorine

Dinotec played an important role in the introduction of this measuring procedure in the market. It is characterized by a maximum of accuracy of measurement, selectivity and zero-point stability. Owing to a specific reference voltage, measurement of chlorine can be carried out selectively, even in strongly calciferous water with changing salt content. The instrument features the ASR electronic probe cleaning as standard, resulting in long operating intervals without re-calibration.

### Measuring Cell Options



#### Type P404 Vented Cell

Compact measuring cell for measurement of free chlorine, pH value, ORP, temperature and sample water deficiency sensor. Electronic probe cleaning (patent pending). Integrated bypass system for time-synchronous measurement of the hygiene parameters. Easy demounting of important functional components, simple visual control of functions.

#### Advantages

- Zero-point stability
- Selective chlorine measurement
- Measurement stability even in difficult types of water such as brine, thermal and spa water
- No hydro-mechanical cleaning required
- Automatic pressure and flow regulation
- Low measuring water requirements (approx. 20 l/h)
- Minimum maintenance requirements
- Monitoring of measuring water flow
- ASR Electronic probe cleaning (patent pending)



#### Type P204 & P304 Inline closed cell (only for use with a dedicated sample pump)

The P204 & P304 (accommodation for 2 or 3 electrodes respectively) combines the many of the features of the P404, but offers the possibility to return the measuring water into the circulation system, if required.

The P304 is designed to accommodate electrodes for the measurement of free chlorine, pH and ORP. Measuring water monitoring is an integrated part of the measuring cell system. ASR electronic probe cleaning is included.

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