



# Poolcontrol Profi



## Description

Fully automatic measuring and control system for pH and free chlorine (and optionally temperature). Potentiostatic chlorine measurement with ASR electronic sensor cleaning ensures the precise and reliable control of swimming pool disinfection. The Poolcontrol Profi is ideal for the smaller commercial pool, hydrotherapy or spa facility where comprehensive communication capabilities are not required. The Profi also features two-way pH control as standard. The controller includes an alphanumeric LCD display and additional status LEDs for easy recognition of ideal or High/Low alarm conditions. The controller is supplied pre-mounted and wired on a PVC backboard, complete with measuring cell (choice of closed or open cell), electrodes, flow switch and sample water strainer, ready for installation. Versions are available with high quality 'dinodos start' peristaltic dosing pumps ready mounted and wired (see overleaf for system options). The Poolcontrol Profi comes with a two-year warranty (excluding electrodes).

## Specification

Microprocessor-controlled potentiostatic measuring and control system for free chlorine, pH, (\*temperature optional). Designed as a self-optimizing controller with alphanumeric LCD display. Measuring range; pH 0-14, Free chlorine 0 - 4.0mg/l, \*optional temperature 0-40°C Control outputs: Chlorine / pH: ON / OFF, pulse frequency, pulse width control, 3-point controller, P, PI-selectable. Interface RS 485 interface for optional printer. With automatic electronic sensor cleaning system - TCS. 2 sensor cables for pH and free chlorine. Line voltage: 85 - 265V / AC, 50/60 Hz

## Potentiostatic measurement of free 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.

## Control features

The Poolcontrol Profi 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

RS485 data bus interface included for connection of a printer for printing of measurement, calibration and alarm values. Multiple controllers (up to 32 units) can be connected in parallel via a 2-wire system to a single printer when using a DMI control interface (part no. D-0710-129-00).

# Technical Information

## Poolcontrol Profi



Compact measuring and control unit with central microprocessor, 2- or 3-position controller. A choice of two types of sample cell are available. All options are supplied pre-mounted and wired on a PVC backboard.

Model Options:

**DSCPROFI-C** Poolcontrol Profi with closed measuring cell type P204, pH & CL<sub>2</sub> sensors, fail-safe flow switch, sample filter, pre-mounted & wired ready for installation.

**DSCPROFI-V** Poolcontrol Profi with open measuring cell type P404, pH & CL<sub>2</sub> sensors, fail-safe flow switch, sample filter, pre-mounted & wired ready for installation.

**D-0120-522-90** Poolcontrol Profi with 'Dinodos'Start' variable speed peristaltic dosing pumps, INLINE (closed) measuring cell type P204, pH & CL<sub>2</sub> sensors, fail-safe flow switch, sample filter, pre-mounted & wired ready for installation. Dimensions: H 720 x W 600 x 8 mm

**D-0120-712-90** Poolcontrol Profi with 'Dinodos'Start' variable speed peristaltic dosing pumps, OPEN (vented) measuring cell type P404, pH & CL<sub>2</sub> sensors, fail-safe flow switch, sample filter, pre-mounted & wired ready for installation. Dimensions: H 720 x W 600 x 8 mm

Additional Options

Add temperature measurement: PT100 temp sensor, part no. 0181-107-00

### Measuring Cell Options



#### Type P404 Vented Cell

Compact measuring cell for measurement of free chlorine, pH value, temperature and sample water deficiency sensor. Electronic probe cleaning (patent pending). Integrated bypass system for time-synchronous measurement of the hygiene parameters affords the highest possible accuracy. 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 Inline closed cell *(only for use with dedicated sample water pump)*

The P204, accommodating 2 electrodes, combines many of the features of the P404, but offers the possibility to return the measuring water with low pressure into the circulation system, if required. Measuring water monitoring is an integrated part of the measuring cell system. ASR electronic probe cleaning is included.

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