

Technical data

Circulation monitoring	Via induction switch and additional input for pressure switch available
Safety functions	<ul style="list-style-type: none"> - Display of alarms as clear text messages - Upper and lower reading alarms, flow alarm, level alarms, dosing time alarms, battery alarm, delayed switch-on, automatic blocking of the dosing in critical alarm situations - Optical, acoustic alarm signals and remote alarm signal available
Interfaces	CAN-Bus
Chlorine measurement amplifier (10-bit A/D converter) with control (free chlorine)	
Chlorine measuring range	0 – 9.99 mg/l
Resolution	0.01 mg/l
Chlorine calibration	Single point or two-point method
Chlorine control type	Proportional control
Chlorine proportional range	Adjustable between 0 and 100%
Chlorine control parameter	All the important control parameters can be programmed (set point, alarm levels, maximum dosing time, proportional range, dosing cycle, minimum switch on/off time)
Chlorine pump trigger	<ul style="list-style-type: none"> - Variable outputs impulse-modulated (for peristaltic pumps, adjustable clock cycles) or frequency-modulated (for membran dosing pumps, up to 240 impulses per minute) - Permanent display of current dosage
Chlorine dosage display	Via display
Reading output	Galvanically isolated, 4 – 20 mA, optional
Chlorine measurement	Self-cleaning amperometric chlorine measuring cell with Cu-PT electrode
PH measurement amplifier	
pH measuring range	pH 0.00 to pH 10.00
Resolution	pH 0.01
pH nominal value	Adjustable between pH 0,00 and pH 10.00
pH calibration	Optionally single point or two-point method
pH control type	Proportional control, double-sided regulation possible
pH proportional range	Adjustable between 0 and 100 %
pH control parameter	All the important control parameters are programmable (set point, maximum dosing time, proportional range, dead zone, dosing cycle, minimum switch on/off time)
pH pump control	<ul style="list-style-type: none"> - Variable outputs impulse-modulated (for peristaltic pumps, adjustable clock cycles) or frequency-modulated (for diaphragm dosing pumps, up to 240 impulses per minute) - Permanent display of current dosage
pH dosage display	Via display
Reading output	Galvanically isolated, 4 – 20 mA, optional
pH measurement	Glass combination electrode
Electrode connection	BNC plug
Temperature measurement amplifier	
Measuring range	0° C – 99.9° C, adjustable alarms
Temperature display	Permanent display, adjustable alarm settings

Compact Controller

Automatic water treatment of the highest standard



- 1 Large colour touch screen
- 2 Clearly structured menu
- 3 Online help
- 4 Interfaces
- 5 Graphic display of readings
- 6 Event log
- 7 Highly sensitive measuring equipment
- 8 Prefilter

Microprocessor-controlled measuring and control system for the automatic treatment of swimming pool water

The Compact Controller combines the highest technological standard with optimum ease of use. A large colour touch display in 5" wide screen format combined with logical menu structure provides very simple and clear operation.

A single touch on the screen is all you need to access the individual menu items or change a setting. All the relevant data is displayed in clear text and can be registered at a glance. The menu can be displayed in the following languages: German, English, French, Spanish, Italian, Polish, Greek, Russian, Flemish, Slovakian, Latvian, Danish, Swedish, Hungarian, Portuguese and Croatian.

The menu is well-structured and the system is easy to use and to understand. Each menu item is also provided with context-related, meaningful help texts. Combined with its robust design, this means high functionality and the greatest possible reliability.

Complete measuring and control system for chlorine and pH

The Compact Controller with its inductive flow monitoring is a measuring and regulating device for chlorine and pH, it is mounted on a base plate and ready for connection to power.

Referenz	Artikel
176995	Compact Controller

1 Large colour touch screen

The backlit colour touch display in 5" wide screen format shows all the data clearly and coherently. All measured data are displayed as a bar chart. The current dose rate and the respective operating mode are displayed at the same time. With ample font sizes, clear text and adjustable contrast, all data are very easy to read. All inputs can be entered with a single touch on the displayed setting.

The 4 most frequently used functions are designed as hot keys and are available for all menu points. The energy-save mode switches the display off after a set time.

2 Clearly structured menu

The logical structure with sub-menus ensures quick access, intuitive operation and safe application. User and service levels are protected by configurable passwords. The complete menu can be displayed in 16 languages.

3 Online help

Each menu point is also provided with comprehensive, context-related help texts. These help texts are very precise and go straight to the point. To access these help texts, simply press the „Help“ button.

4 Interfaces

The Compact Controller is fitted with an open CAN interface. This allows for additional, CAN interface based devices to be plugged in a later stage.

5 Graphic display of readings

All readings can be displayed as graphics. This enables a clear history of measurement readings for the last three months. By using the zoom function, it is possible to display periods ranging from one hour to one week. Special events, for instance alarms, are shown in the graphics. It is also possible to display several measurement graphs simultaneously. When using membran dosing pumps, it is possible to control the individual pump strokes straight

from the device thanks to a volts-free output contact (max. 240 dosing impulses per minute).

6 Event log

The Compact Controller stores all important events, such as calibrations, parameter changes, resets etc. in an event log with time and date. It is thus possible to record the proper operation of the pool system and easily analyse any discrepancies that may occur.

7 Highly sensitive measuring equipment

The amperometric measuring cell gives a precise measurement of the amount of free chlorine in the water. The pH level is constantly measured and monitored, the temperature sensor, located by the flow cell, constantly monitors changes in the water temperature.

8 Prefilter

The standard large filter ensures that only water free of particles passes the highly sensitive sensors.

OPTIONS

(Not included in scope of delivery)

Electrical outputs

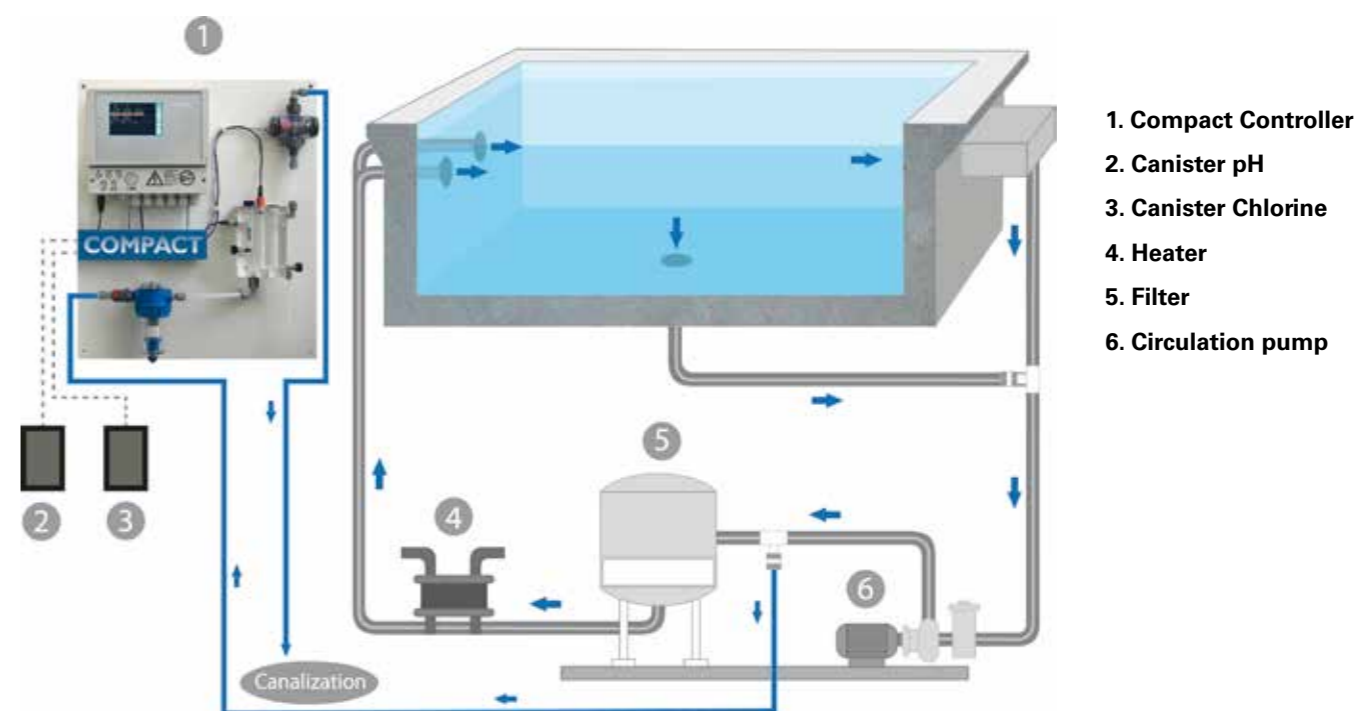
The 4 – 20 mA electrical outputs enable direct connection to a chart recorder or to a building management system. All displayed readings can be shown on a separate screen.

Optional web connection*

Connecting your Compact Controller to the internet or LAN enables you to monitor and control all important functions of your pool remotely at any time from anywhere using your phone, tablet or other internet enabled device.

*(Available approximately from the 3rd quarter of 2017)

Installation Plan



Scope of delivery:

- Compact Controller, measurement chamber and pre-filter, mounted on plate
- pH sensor and cell for amperometric measurement of free chlorine
- Buffer solution pH 7 and pH 9
- Fitting accessories
- Operating instructions

Technical data

Mains supply	230 V, 50 Hz mains voltage
Protection type	IP 65
Temperature range	0° C to +50° C
Storage temperature	-10° C to +60° C
Power input (standby)	c. 5 W
Power input (operation)	max. 20 W (without dosing pump)
Dimensions of controller	245 x 255 x 125 mm (H x W x D)
Dimensions when fitted	630 x 550 x 135 mm (H x W x D)
Display and operation	– High-resolution colour touch display in 5" wide screen format – Simple touch screen controls – Clear menu structure and navigation – Power down screen for energy saving (time adjustable) – Online help (context-related, for all menu items)
Language settings	German, English, French, Spanish, Italian, Polish, Greek, Russian, Flemish, Slovakian, Latvian, Danish, Swedish, Hungarian, Portuguese, Croatian
Navigation	Divided into customer and service levels, both levels protected with changeable password