Technical data

Connection	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 regulator	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 5.7" screen, monochrome, blue backlight - 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
Circulation monitoring	Via OMRON induction switch and additional input for pressure switch available
Safety functions	- Display of alarms as clear text messages - Upper and lower reading alarms, flow-rate 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, RS 232, RS 485

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, clock cycle, minimum switch on/off time)
Chlorine pump trigger	- 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
Chlorine dosage display	Via display
Reading output	Galvanically separated, 4 – 20 mA, optional
Chlorine measurement	Self-cleaning amperometric chlorine measuring cell with PT-Cu electrode

Technical data

pH measurement amplifier (10-bit A/D converter) with control	
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, bilateral 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, clock cycle, minimum switch on/off time)
pH pump control	- 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 separated, 4 – 20 mA, optional
pH measurement	Glass single-rod measuring cell
Electrode connection	BNC plug

Temperature measurement amplifier	
Measuring range	0° C – 99.9° C, adjustable alarms
Temperature display	Permanent display, adjustable alarm settings

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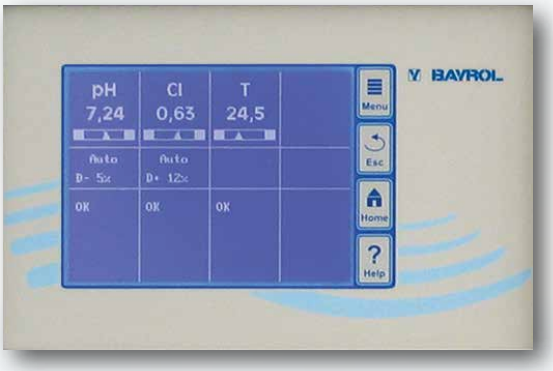
BAYROL

Compact Controller

Automatic water maintenance of the highest standard

Compact Controller – Automatic water maintenance of the highest standard

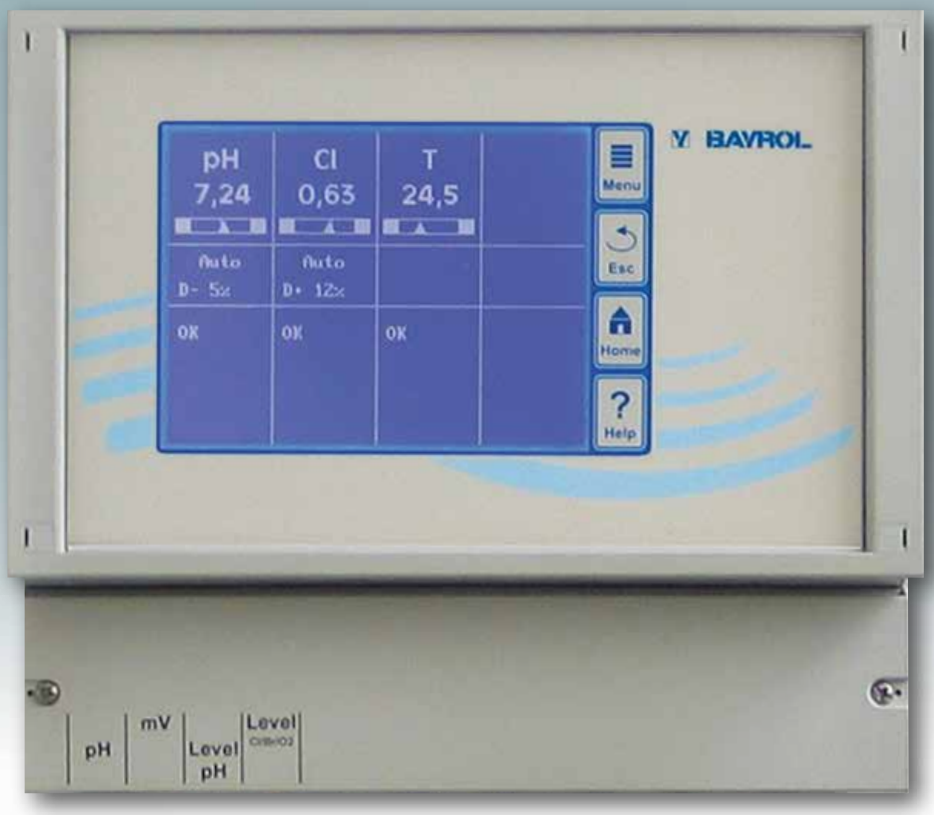
Microprocessor-controlled measuring and regulating system for the automatic purification of swimming pool water



The Compact Controller combines the highest technological standard with optimum ease of use. A large 5.7" touch screen combined with logical menu structure provides very simple and clear operation. A light touch of the screen is all that is needed to access the individual menu items or change a setting. All the relevant data is displayed in clear text and can be recorded in an instant. Operation language can be chosen from 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 regulating system for chlorine and pH

The Compact Controller with its inductive through 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. Computer connection is possible with the optional software, and connections.



Large touch screen

The backlit 5.7" VGA screen displays all the data clearly and in a well-arranged manner. All measured data is 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 is very easy to read. All inputs can be entered with a light touch on the displayed setting. The 4 most frequently used functions are designed as hot keys and are available for all menu items. The energy-save mode switches the display off after a configurable time.

Clearly structured menu

The logical arrangement of the software into a sub-menus ensures rapid navigation, intuitive operation and safe use. User and service levels are protected by configurable passwords. The complete menu can be displayed in 16 languages.

Online help

Each menu item is also provided with comprehensive, context-related help texts. In most cases the help texts make the manual superfluous. All that is needed to call up the help pages is a press of the help hot key.

Interfaces

The Compact Controller is fitted with an open CAN interface. This makes it possible to attach other devices at a later date that conform to this standard. Combined with the RS 485 and RS 232 interface it is possible to realize a number of networking and connection variations as well as communicate with PC's.

Graphic display of readings

All readings can be displayed as graphics. This enables a clear history of operator inputs for the last three months. Using the zoom function it is possible to display periods ranging from one hour to one week. Special events, like alarms, are shown in the graphics. It is also possible to display several reading graphs simultaneously. When using diaphragm dosing pumps it is possible to control the individual pump strokes straight from the Compact Controller by means of a floating output contact (max. 240 dosing impulses per minute).

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 inconsistencies that may occur.

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 monitored and measured, the temperature sensor located by the flow cell constantly monitors changes in the water temperature.

Prefilter

The standard large filter ensures that only water that is 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 duplicated as an output.

PoolConnect

The Compact Controller can also be fitted with the optional PoolConnect mobile phone module. This enables data transfer between the Compact Controller and a mobile phone at all times using SMS. This means that water readings and alarms can be sent straight from the Compact Controller to a mobile phone and Compact Controller settings can be made from anywhere via mobile telephone.

PC communication software

The PM4comm PC communication software enables data exchange between one or more Compact Controller devices and a PC. This can be used to display, save and graphically display operating parameters. Device settings can also be altered from the PC.