

Analyt

Automatic water maintenance of the highest standard

Analyt 3 conforms to
DIN 19 643, ONORM M 5872
SIA 385/J1-2000

Simple touch
screen operation



BAYROL
Make your pool a simple pleasure

Analyt - Automatic water maintenance of the highest standard

With outstanding technology, the new generation of Analyt measuring, control and dosing devices sets new standards in automatic water maintenance.



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. Each menu item is also provided with context-related, meaningful help texts. The outer casing covers

the measuring sensor technology, providing the best possible protection. The casing can be easily removed, guaranteeing rapid access to the measuring sensors and controllers. The illuminated measurement cell means that the water flow through the measuring cell can also be monitored when the cover is in place. All components used conform to the latest directives. Combined with its robust design, this means high functionality and the greatest possible reliability. The Analyt's flexible design means that it can be fitted with a wide variety of optional extras to make up a comprehensive water maintenance system.

Analyt 3

Complete measuring and regulating system for chlorine, redox, pH and temperature.



Constant measurement and control of the free chlorine content and pH of the pool water. Corresponds to DIN 79 643, Austrian ONORM M 5872 standard and Swiss SIA 385/1-2000 standard.

Scope of delivery: Ready assembled Analyt 3 measuring and regulating system with measurement technology, prefilter and cover.

Analyt 2

Complete measuring and regulating system for chlorine, pH and temperature.



Constant measurement and control of the free chlorine content and pH of the pool water.

Scope of delivery: Ready assembled Analyt 2 measuring and regulating system with measurement technology, preliminary filter and cover.





→ Large touch screen

The built-in 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

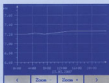
The logical arrangement of the software into a sub-menus ensures rapid navigation, intuitive operation and safe use. User and service levels are protected by configurable passwords. The complete menu can be displayed in 11 languages.

→ Online help

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

→ 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.



→ Frequency control

When using diaphragm dosing pumps it is possible to control the individual pump strokes straight from the Analyt by means of a floating output contact (max. 240 dosing impulses per minute).

→ Event log

The Analyt 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.

→ Interfaces

The Analyt 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 receive a number of networking and connection extensions, as well as communicate with PC's.

→ Highly sensitive measuring equipment

The amperometric measuring cell gives a precise measurement of the amount of free chlorine in the water being measured. The pH and the temperature are measured in the measuring chamber (the Analyt 3 also measures the redox value). Both measuring cells are backlit with blue light.

→ Prefilter

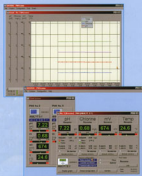
The standard large filter ensures that only water that is free of particles passes the highly sensitive sensors.

OPTIONS

(Not included in scope of delivery)

→ PC communication software

The PMAcomm PC communication software enables data exchange between one or more Analyt 2 or Analyt 3 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.



→ Electrical outputs

The 0/4...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 Analyt can also be fitted with the optional PoolConnect mobile phone module. This enables data transfer between the Analyt and a mobile phone at all times using GPRS. This means that water readings and alarms can be sent straight from the Analyt to your mobile phone and Analyt settings can be made from anywhere via mobile telephone.

Technical data

Connection	230V, 50Hz mains voltage
Protection type	IP 65
Temperature range	0°C bis +50°C
Storage temperature	-10°C bis +60°C
Power input (standby)	c. 5W
Power input (operation)	max. 20W (without dosing pump)
Dimensions of the mounting plate	640 x 500 x 14,5 mm (W x H x D)
Display and operation	- High-resolution 5.7" screen, monochrome, blue backlight - Simple touch screen controls - Clear menu structure and navigation - Screen with automatic switch-off for energy saving (adjustable) - Online help (context-related, for all menu items)
Language settings	German, English, French, Spanish, Italian, Polish, Greek, Russian, Flemish, Slovakian, Czech
Navigation	- Divided into customer and service levels, both levels protected with changeable password
Circulation monitoring	Via OMRON induction switch and locking mechanism using the circulation pump, additional input for pressure switch
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 via alarm relays
Interfaces	CAN-Bus, RS 232, RS 485

Chlorine measurement amplifier (10-bit A/D converter) with control (free chlorine)	
Chlorine measuring range	0...879 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 (nominal value, 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, 0/1...20mA, 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 und 100%
pH control parameter	All the important control parameters are programmable (nominal value, 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, 0/4...20 mA, optional
pH measurement	Glass single-rod measuring cell
Electrode connection	BNC plug

Redox measurement amplifier (10-bit A/D converter), no control; only with Analyt 3

Redox measuring range	0-999mV
Reading output	Galvanically separated, 0/4...20 mA, optional
Redox 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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