BAYROL TECHNIK

TECHNICAL DATA SHEET

POOLMANAGER® & POOLMANAGER® PRO

The new PoolManager® Series 6 embodies the highest level of expertise in pool management. Precise control, advanced connectivity and intuitive operation. 7" HD touchscreen, app access and quick setup for pools up to 250 m³.



PRODUCT HIGHLIGHTS

POOLMANAGER® SERIES 6, THE NEW ULTIMATE BENCHMARK FOR EXCLUSIVE POOLS

- **Next-generation smart pool automation**
- **The most complete pool management system on the market**
- **High-performance measurement and dosing technologies**
- **Ultra-simplified installation and commissioning**

SPECIFICATIONS

WATER MEASUREMENT AND REGULATION

- Automatic pH and disinfection measurement and control
- Automatic temperature compensation for pH measurement
- Analysis chamber with integrated flow monitoring
- Convenient water sampling point integrated into the measuring chamber
- Optional flow regulator for a stable measurement signal, especially for free chlorine measurement
- Intelligent monitoring of sensors, flow and dosing
- High-quality, quiet peristaltic pumps, standard flow rate 3 l/h (optional 1.5 l/h)
- Expandable with up to 2 additional dosing pumps
- Optional: Flocculant dosing pump with adjustable flow rate via the user interface

POOL EQUIPMENT MANAGEMENT

- Individual and freely configurable interconnection options between installed components
- Direct control of variable-speed filter pumps (VSP)
- Two independent heating systems can be managed
- Filter backwash management
- Optional: Balance tank management for overflow and gutter pools with individually adjustable water level limits via pressure sensor
- Optional: Skimmer level management for skimmer pools, including automatic water top-up
- Individual control of lighting, water features and various valves – including sequences and scenarios
- Control of additional metering pumps
- Numerous connection options for controlling other external equipment
- Flexible relay expansion via up to 3 optional internal plug-in boards or via direct Wi-Fi connection to the Smart&Easy Control Module (optional)

CONNECTIVITY AND REMOTE ACCESS

- Built-in Wi-Fi and RJ45 (LAN) connectivity as standard
- Embedded web server for real-time access
- Remote access via mobile app or web portal
- Over-the-air (OTA) software updates
- Data export via USB or the internet
- Separate password protection for users and professionals
- Direct Wi-Fi connection to external modules

USER INTERFACE

- Large 7“ high-resolution touchscreen (1024 × 600 pixels)
- Intuitive touchscreen navigation with a user-centric interface
- Up to 9 customizable home screens for personalized tile-based function layouts
- Swipe navigation
- Quick access menu for fast control of key function settings
- Freely configurable quick access menu by the professional installer for enhanced day-to-day safety
- Creation of customized and adjustable measurement value and system charts
- Dedicated operating-status display for each function
- Event log with advanced filters

ALARMS AND SAFETY

- Visual and audible alarms
- Warnings via relay outputs
- Email notifications
- Push notifications to a smartphone
- Continuous monitoring of critical parameters

INSTALLATION AND MAINTENANCE

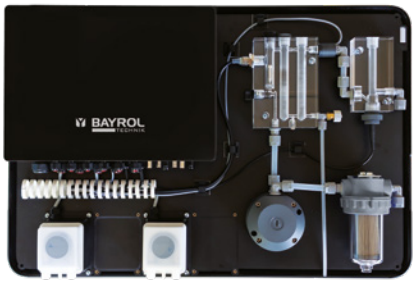
- Push-in terminal blocks (0.12 to 2.5 mm²) for fast installation
- Spacious installation area for improved handling and cable management
- Smart locking mechanism providing protection against unauthorized access (child safety)
- Configuration and commissioning assistants
- Simplified maintenance access thanks to an optimized cover design
- Compatible with PoolManager® 5 sensors, expansion modules and wear parts
- Remote access and device management option for professional dealers via web portal

SERVICE

- Trained technical support team for professionals and end customers



PoolManager® PRO Series 6
with protective cover



Open PoolManager® PRO Series 6
with integrated flow regulator (optional)

AVAILABLE MODELS

Pool Manager® Series 6 **Article no. 188111**	Automatic measurement and regulation of the pH value and disinfection by **Redox potential measurement.** Supports 3 treatment methods: liquid chlorine (Chloriliquide), liquid active oxygen (Bayrosoft® Light) or bromine (Aquabrome®).
Pool Manager® PRO Series 6 **Article no. 188631**	Automatic pH and disinfection measurement and control by **free chlorine measurement** (potentiostatic probe). For treatment with liquid chlorine (Chloriliquide).

POOLMANAGER® PRO SERIES 6 SPECIFICATIONS

- Additional measuring chamber for free chlorine measurement
- Measurement value displayed on the device screen in mg/L
- Low-maintenance potentiostatic measuring cell with an optimized self-cleaning design

INCLUDED IN DELIVERY

- Pre-assembled PoolManager® Series 6 (or PoolManager® PRO Series 6), preconfigured on a dedicated mounting plate with cover
- pH sensor and redox sensor (PRO version: potentiostatic measuring cell for free chlorine)
- 2 peristaltic dosing pumps (pH value and disinfectant)
- Suction lances, injectors, tubing set, analysis set, buffer solutions and cleaning solution
- Installation instructions and mounting accessories

OPTIONS

Flow Controller Kit (PoolManager PRO only) **Article no. 188110** NEW	Maintains a constant flow in the measurement circuit and compensates for pressure fluctuations. Ensures stable and precise measurements even when the filtration speed varies.
Smart & Easy Control Module **Article no. 191080** NEW	Expansion with 4 relays for filtration, lighting and water attractions, plus 4 digital outputs for controlling a variable-speed filter pump (Eco, Normal and High). Secure wireless communication via a dedicated 1:1 Wi-Fi connection.
Balance Tank Control **Article no. 127130**	Automatic monitoring of the buffer tank water level using a titanium hydrostatic sensor. Individually configurable filling, low-water protection and overflow prevention thresholds (solenoid valve not included).
Flockmatic® **Article no. 127420**	10 ml/h flocculant dosing pump. Equipped with a powerful stepper motor and a rapid priming function. Supplied with tubing set, suction lance and injection valve.
Flockmatic® Vario **Article no. 127450 / 188400** NEW	Variable flocculant dosing via an external pump kit (127450) or integrated pump module kit (188400), specifically designed for PoolManager® Series 6 and conveniently controlled via the menu.
Skimmer Level Sensor Kit **Article no. 188120** NEW	Level control system developed specifically for installation in the skimmer. Automatically maintains a constant water level to ensure optimum filtration without manual topping up.
Leakage Sensor Kit **Article no. 188130** NEW	Straightforward installation in the plant room. Quickly detects unusual water presence, triggers a warning on the unit and in the app, and helps prevent damage caused by leaks.
Temperature Sensor Kit **Article no. 188150** NEW	Versatile PT1000 temperature sensor for indoor and outdoor use (air temperature), designed for PoolManager® Series 6.
4-Relay Plug-in Board **Article no. 127016**	Expansion module integrating 4 additional relays. Variable-speed pump control (VSP), water attractions, counter-current swimming, lighting, backwashing, heating and much more.
pH Plus Kit bidirectional pH regulation **Article no. 188304**	Automatic pH correction in both directions, with additional pH Plus dosing. Precise pH control and reliable disinfection, even under unstable water conditions.
SA4 4–20 mA Analog Board **Article no. 127111**	Integration of 4 × 4–20 mA outputs for value transmission and centralised management.
Kit de mesure du chlore total **Article no. 127110**	Measurement and display of combined chlorine and total chlorine concentrations for PoolManager® PRO. Ready-to-integrate kit including a membrane sensor, measuring chamber and mA-IN2 interface (2 × 4–20 mA inputs).

CONSUMABLES

pH Minus Liquid Domestic **Article no. 1194327 · 20 L**	Concentrated liquid for lowering a pH value above 7.4. Ideal for automatic regulation systems.
pH Plus Liquid **Article no. 1194767 · 20 L**	Concentrated liquid for raising a pH value below 7.0. Ideal for automatic regulation systems.
Chloriliquide **Article no. 1134163 · 20 L**	Ready-to-use concentrated liquid based on unstabilised chlorine for continuous disinfection. Ideal for automatic regulation systems.
Bayrosoft® Light **Article no. 1132250 · 20 L**	Concentrated product combining chlorine-free disinfection and oxidation based on active oxygen. Contains a hardness stabiliser.
Quickflock Automatic Plus **Article no. 1195128 · 20 L**	Liquid flocculant developed for use with the Flockmatic® dosing system.

WEAR PARTS

Glass pH Sensor **Article no. 185301**	Glass sensor with 0.85 m cable with BNC connector.
Glass Redox Sensor **Article no. 185300**	Glass sensor with 0.85 m cable with BNC connector.
Pump Hose 3L/h **Article no. 127356**	For PoolManager and PoolManager PRO dosing pump.

TECHNICAL DATA

MEASUREMENT INPUTS (BNC AND TEMPERATURE)

Connection	BNC 1	BNC 2	BNC 3	BNC 4	BNC 5	BNC 6	T 1	T 2	T 31
Assignment	pH-Sensor	Level pH	Redox sensor	Level disinfection	CL Ref (PRO only)	free (IN 5)	T° water channel analysis	free	free
Measurement range	0–10	–	0–1,000 mV	–	0,01–10 ppm/mg/l	–	-20–100 °C	-20–100 °C	-20–100 °C
Resolution	0,01	–	1 mV	–	0,01 mg/l	–	0,1 °C	0,1 °C	0,1 °C
Toleranz	± 0,05 pH	–	± 5 mV	–	± 0,05 mg/l	–	±0,5 °C	±0,5 °C	±0,5 °C

T1 to T3: PT1000 • Automatic temperature compensation for pH measurement • Tolerance values apply to the calibrated measuring chain.

INTERNAL RELAY OUTPUTS

6 relay outputs (5 NO + 1 NO/NC), potential-free or 230 V~, compatible with PWM and frequency modulation.

Output	OUT 1	OUT 2	OUT 3	OUT 4	OUT 5	OUT 6
Type	Normally open (NO)	Normally open (NO)	Normally open (NO)	Normally open (NO)	Normally open (NO)	NO/NC (changeover)
Switchable load, internal 230 V~ supply (bridge)	Maximum 4 A (total)			Maximum 4 A (total)		
Assignment	Disinfection	pH-	free	free	free	free

INTERNAL SWITCHING INPUTS

Input	IN 1	IN 2	IN 3	IN 4	IN 5	IN 6
Type	potential-free DC	potential-free DC	potential-free DC	potential-free AC (for galvanic sensors)	potential-free DC (BNC connector)	Sensor input
Use	free	free	free	free (e.g. Skimmer Level Sensor Kit)	free	Flow sensor in the measurement chamber; – Supply +15 V / max. 40 mA

VSP (VARIABLE SPEED PUMP) INTERFACE

Dedicated VSP interface: variable pump control across 3 speed levels (Low, Medium, High), with on/off contact via a potential-free relay.

Start	Low	Medium	High	Stop	Run	COM
Type	NO	NO	NO	NC	NO	–
Supply voltage	30 V / maximum 50 mA per contact					

Additionnal VSP can be controled with the optional Smart & Easy Control Module

FURTHER INFORMATION

Display	7“ (17.8 cm) display with a resolution of 1024 × 600 pixels
Dosing pump control	pH: unidirectional control (bidirectional control available as an option) Disinfection: unidirectional control using ORP or free chlorine (PRO only)
Delivery rate Peristaltic pumps	Flow rate: 3.0 l/h – optional tubing for a flow rate of 1.5 l/h available Maximum permissible back pressure: 1.5 bar
Relay expansions (optional)	Internal: up to 3 relay modules (127016), each with 2x normally open (NO) and 2x changeover (NO/NC) relays, potential-free, maximum 230 V~ / 3 A. External (Wi-Fi): up to 3 Smart & Easy Control Modules (191080), each with 4 potential-free relays, maximum 230 V~ / 4 A or 24 V DC / 4 A. Up to 28 free relays by combining expansions and 4 free factory-fitted relay outputs.
Plug-in module options	PoolManager® Series 6: 4 free slots for plug-in modules PoolManager® PRO: 3 free slots for plug-in modules (4 slots, 1 occupied by the free chlorine measurement module)
Monitoring functions	flow monitoring in the measurement chamber, pH - and disinfectant level monitoring; options: pressure sensor for buffert tank, skimmer level sensor, leakage detector,
Communication interfaces	Wi-Fi 2.4 GHz • Ethernet (RJ45) 100 Mbit/s (minimum Cat.5 cable) • USB
Communication	Mobile app, web portal and direct access on the local network
Connection terminals	Push-in terminals, 0.12 to 2.5 mm²
Power supply	230 V~ ±10 %, 50/60 Hz
Power consumption – self-consumption	approx. 5 W up to max. 30 W, depending on configuration and operating state. External loads switched via the relay outputs are not included.
Temperature ranges	Operating temperature: 0 °C – 45 °C, no direct sunlight | Storage temperature: -20 °C – 70 °C
Protection rating	IP 65 – controller and pump housing
Dimensions and weight	715 x 486 x 133 mm (W x H x D) • Weight: approx. 11 kg
Conformity	CE, RED, RoHS (2011/65/EU), REACH (EC 1907/2006), Cyber Resilience Act (CRA)