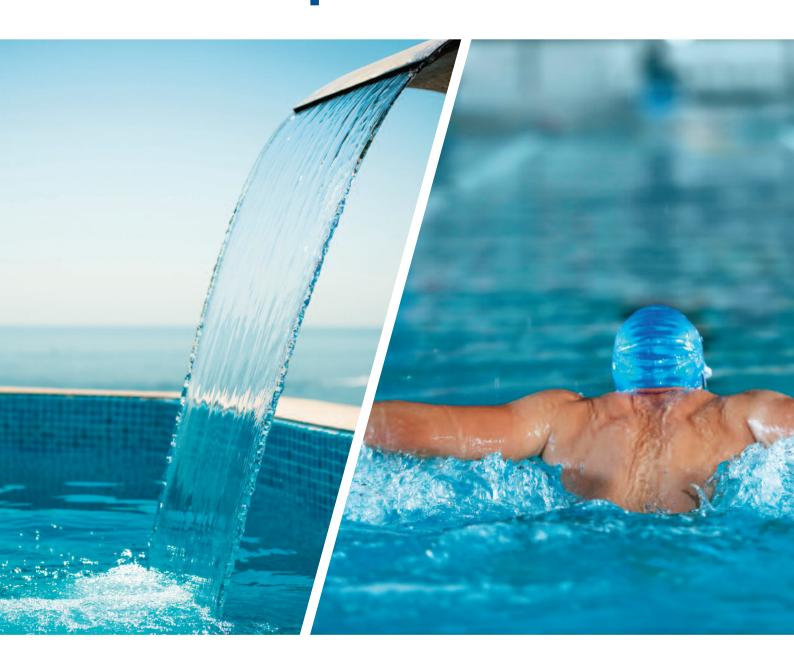


Solutions for Pools & Spa



Your Choice, Our Commitment



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A Worldwide Group at your service

Globally Present, Locally Active

Our Global presence ensures that we can support our Customers wherever they are. Supported by teams in over 20 countries, as well as by our accredited Partner Distributor network, we ensure professional, local customer support in over 120 countries, with the added benefit of rapid delivery of goods to meet your needs.

All this backed up and supported by a world-class team of Technical Customer Service, able to provide all the back up or technical support needed. With ISO certificated production sites in Europe, the Americas and Asia, we are close to our customers and fully compliant with all local norms both in terms of our product designs as much as our production facilities.

How SEKO works for You

From the spark of an idea, through to the delivery of a solution, SEKO is with you all the way

SEKO supports its customers in every phase of a project, from the inception of an idea or request, through design and testing to launch and installation. Our in-house research, design and development teams work closely with the local teams, drawing on customer and market inputs. Then using state-of-the-art technologies to optimize costs and using our own specifically designed test benches to ensure rigorous, robust testing, we ensure a quality solution is delivered quickly to market.

No matter which processes and applications are planned SEKO has a solution in the cleaning and hygiene of kitchens and laundries and surfaces of all types in applications like Offices and Restaurants, Hospitals and Hotels, Retailers and Schools, Car Washes and Swimming Pools, Cooling Towers, Energy, Food & Beverage, Water & Gas Utilities Potable and Waste Water Treatment.

1 Partnership Philosophy

Being a privately-owned business means that we are here for the long term and can plan projects with and for our Customers, where both parties benefit. It means we can rapidly take decisions to invest our resources to ensure our optimum solutions are delivered.

Your Business, Our Solutions

Our extensive product range represents a unique combination of design, development and implementation know how. With a wide and ever evolving range of products and ancillaries, we can offer specific and comprehensive solutions for a variety of industrial applications. Our solutions are conceived to fit seamlessly into your operation, optimizing the processes and applications



SEKO's 3 business units, Cleaning & Hygiene, Water & Industry and Industrial Processes puts us in a unique position to be able to respond to the widest range of business needs, with a broad range that allows you the Customer to deal with just one company, simple.

Pools & Spa

An ever-evolving set of solutions for pristine pools

SEKO has been at the forefront of developing solutions for both residential and professional swimming pools for many years and has always delivered the most efficient, practical and complete solutions for the reseller or for the installer.

SEKO's design and manufacturing processes ensure all our solutions and systems deliver:

Precision and Consistency

Ensuring that water quality is always at its best, balancing the variables that impact it, demands measuring and dosing systems with the highest accuracy and built with precision in mind, that can function in both indoor and outdoor environments. Parameters measured include: pH, ORP, Conductivity, Chlorine, Oxygen, Turbidity, Peracetic Acid, Ozone, Bromine, Peroxide and Flow rate.

Safety and Reliability

The safety of customers, installers and operators is paramount, requiring the very best in terms of design and features. From the IP65 class enclosures of our dosing systems and controllers through to the precise choice of materials used to ensure full chemical compatibility over time, safety is at the forefront of our design ethos. Reliability drives good safety, and all SEKO's products are fully tested prior to leaving our warehouse.

Ease of Use and Installation

As a Global company, SEKO is attuned to the differing needs of individual markets. When we design a new product, we ensure that installation is simple, we use uniform programming language solutions, that are intuitive and easy to understand and which on our Controllers is also available in multiple languages. From our plug and play residential systems, through to our complex professional systems for Water parks, these characteristics are always present.

Operational Efficiency

From the domestic pool to the largest water parks, the costs of running a pool require close management, and for the larger public pools and water parks the question if water quality, and clarity of appearance become more critical from a brand safety and image point of view. Our SEKONet system offers significant benefits for larger water parks being able to monitor and control up to 99 controllers, giving peace of mind and outstanding operational benefits. From the simple plug and play residential product range, through to our Professional ranges and our Custom build options, SEKO has the range of pumps and controllers that will keep a pool crystal clean.





Residential Pools & Spa

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	Single pump systems PoolKronos – Basic – PoolBasic – Kontrol Invikta
	pH
	ORP
	Timed dosing
	Proportional dosing
	Double pump systems PoolKronos – Basic – PoolBasic – Kontrol Invikta
	pH
	ORP
	Timed dosing
	Proportional dosing
	Triple pump systems PoolBasic Pro - Kommander
	pH ; ORP ; Flocculant
	pH minus ; ORP ; pH plus
	pH ; ORP ; Chlorine ; Flocculant
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page 16	Pre-assembled panel-mounted
	pH ; ORP controller
	pH ; ORP double peristaltic pumps
	pH ; ORP double solenoid driven pumps

Control and dosing systems

Peristaltic or solenoid driven dosing systems with built in controllers for single, double or multi parameter measurement

Combined systems with peristaltic pumps, solenoid driven dosing pumps and controller. to automatically measure and verify the values of the pool water. The units for residential applications have been designed so they do not require the presence of technical personnel.

- Peristaltic dosing pumps with 2 or 3 PVDF rollers and Santoprene or SekoExtra tubing
- Easy and advanced parameter setting
- Proportional dosing TWM (Time With Modulation) or FWM (Frequency With Modulation)
- Calibration process uses high quality pH and ORP probes
- Extra dosing available thanks to pH and chlorine relay

- Amperometric sensor measures chlorine PPM
- Circulation and boiler controller
- Installation kit included
- No technical skill required
- Remote alarm relay
- Circulation pump checks "Power On" flow
- Input level probe checks product levels
- Multi language menu

SINGLE PUMP FOR PH OR ORP MEASUREMENT

SEKO's principal offering for the residential pool market provides a user-friendly combination of products consisting of controllers and integrated proportional dosing pumps, the end user can adjust pH and chlorine values as required.



PoolKronos single peristaltic dosing systems with a stepper motor pump and 3 PVDF rollers using built in controllers for pH/ORP measurement.



PoolBasic user-friendly analogue or digital combined system with a peristaltic pump and single measurement with automatic proportional dosing.



Basic combined system with a peristaltic pump and either automatic proportional or timed dosing to adjust key chemical parameters.



Kontrol Invikta user-friendly solution combining a solenoid driven pump and single measurement with automatic proportional dosing.

TWO DOSING PUMPS FOR MULTI-PARAMETER MEASUREMENT

SEKO has developed new advanced combined systems for the hotel and spa markets, featuring amperometric chlorine measurements which ensure full compliance with most local legislation.



Kontrol Invikta Double combines two solenoid driven pumps with a multi measurement capability and an automatic proportional dosing.

TWO OR THREE DOSING PUMPS FOR MULTI-PARAMETER MEASUREMENT.

SEKO's double or triple pump systems featuring amperometric chlorine measurements and an innovative system to control circulation pumps and boilers for hotel swimming pools and spas that fully complies with legislation.





PoolBasic Pro combines two or three peristaltic pumps and and a multi measurement capability with automatic proportional dosing.





Kommander advanced combined system with two or three peristaltic pumps with either automatic proportional or timed dosing that adjusts chemical parameters and which comes with built-in functions that enable weekly timed management of the circulation pump and a temperature sensor for boiler activation using a relay.

INSTALLATION KIT INCLUDED

pH and ORP probes, amperometric chlorine cell By-pass and pressurized probe holder pH and ORP buffer solutions Piping DN50

Brass brush 5" with 80 µm cartridge Ceramic foot filter and FPM non return valve 4x6 and 8x12 PVC and PE tubes

















PoolKronos 10

PoolKronos 10 is a peristaltic dosing system using built in controllers for pH/ORP measurement designed specifically for Swimming Pool applications and offers flexibility of installation, user-friendliness in programming and a constant chemical dosing by pH or ORP analysis.



POOLKRONOS 10

- for **pH** (3.8 8.2)
- for **ORP** (400 999 mV)

CONSTANT DOSING PUMP

Flow rate 1.5 l/h; Pressure 1.5 bar

POOL SIZE Indoor 1 – 130 m³; Outdoor 1 – 110 m³

MAIN BOARD

Display LCD 7 segment Power supply with galvanised electrical insulation 100 - 240 Vac 50/60Hz

IP65 ENCLOSURE

Dimensions 204 x 76 x 124 mm Material PP with fiber glass

PoolKronos 20

PoolKronos 20 builds on the PoolKronos 10 peristaltic system. Designed specifically for Swimming Pool applications, it also uses built in controllers for pH/ORP analysis and offers installation flexibility, user-friendly programming and proportional chemical dosing using pH or ORP analysis. The PoolKronos 20 has an improved LCD display for ease of reading measurements.



POOLKRONOS 20

- for **pH** (4 10)
- for **ORP** (300 999 mV)

PROPORTIONAL DOSING PUMP

Flow rate 1.5 l/h; Pressure 1.5 bar

POOL SIZE Indoor 1 – 130 m³; Outdoor 1 – 110 m³

MAIN BOARD

Display LCD 8 letters x 2 lines Power supply with galvanised electrical insulation 220 Vac 50 Hz cord cable

IP65 ENCLOSURE

Dimensions 204 x 76 x 124 mm Material PP with fiber glass

PoolKronos 50

PoolKronos 50 has the broadest range of measurement of the PoolKronos range coming with a bigger 16 letter LCD display. As with the rest of the PoolKronos products, it uses built in controllers for pH/ORP analysis. Similarly it is extremely flexible in terms of installation, user-friendly for programming and offers proportional chemical dosing by pH or ORP analysis.



POOLKRONOS 50

- for **pH** (0 14)
- for **ORP** (0 2000 mV)

PROPORTIONAL DOSING PUMP with Stepper Motor pump; Flow rate 2 l/h; Pressure 3 bar

POOL SIZE Indoor 1 – 140 m³; Outdoor 1 – 120 m³

MAIN BOARD

Display LCD 16 letters x 2 lines Power supply with galvanised electrical insulation 100 - 240 Vac 50/60Hz

IP65 ENCLOSURE

Dimensions 207 x 117 x 145 mm Material ABS

Basic Series

The Basic Series, despite its name, offers an advanced combined system with a peristaltic dosing pump and either automatic proportional or timed dosing to adjust key chemical parameters in domestic, above ground pools and spa.



BASIC

- PRO Input 4÷20mA or frequency pulse
- TIME by weekly timer built in

DOSING PUMP

Flow rate 25 - 9750 ml/h; Pressure 1.5 bar

POOL SIZE Indoor 5 – 130 m³; Outdoor 5 – 110 m³

MAIN BOARD

Alphanumeric display 16 letters x 2 lines **Power supply** 100 – 240 Vac 50/60Hz

IP65 ENCLOSURE

PoolBasic LED

PoolBasic LED is a user-friendly analogue combined system with a peristaltic dosing pump and single measurement with automatic proportional dosing that enables chemical adjustment for above ground pools.



POOLBASIC LED

- for **pH** (6.2 8.2)
- for **ORP** (480 750 mV / 660 930 mV)

PROPORTIONAL DOSING PUMP

Flow rate 1.5 or 5 l/h; Pressure 1.5 bar

POOL SIZE Indoor 5 – 130 m³; Outdoor 5 – 110 m³

MAIN BOARD

Display LED

Power supply 220 – 240 Vac 50/60Hz

IP65 ENCLOSURE

Dimensions 234 x 162 x 108 mm Material PP

PoolBasic Plus

PoolBasic Plus delivers a user-friendly solution combining a peristaltic dosing pump and single measurement with automatic proportional dosing that adjusts the chemical parameters for above ground pools.



POOLBASIC PLUS

- for **pH** (0 14)
- for **ORP** (0 1000 mV)
- for ORP with shuko (0 1000 mV)

PROPORTIONAL DOSING PUMP

Flow rate 1.5 or 5 l/h; Pressure 1.5 bar

POOL SIZE Indoor 1 – 130 m³; Outdoor 1 – 110 m³

MAIN BOARD

Alphanumeric display 16 letters x 2 lines Power supply 220 Vac 50/60Hz

IP65 ENCLOSURE

Kontrol Invikta

Like PoolBasic Plus, Kontrol Invika delivers a user friendly solution combining a solenoid driven dosing pump and single measurement with automatic proportional dosing but for larger volume above ground, indoor and outdoor pools.



KONTROL INVIKTA

- for **pH** (0 14)
- for **ORP** (0 1000 mV)

SOLENOID DRIVEN DOSING PUMP

Proportional dosing FWM (Frequency With Modulation) Flow rate 5 l/h; Pressure 5 bar

Wetted parts Body in PVC, membrane in PTFE

POOL SIZE Indoor 50 – 350 m³; Outdoor 50 – 300 m³

MAIN BOARD

Alphanumeric display 16 letters x 2 lines Power supply 100 - 240 Vac 50/60Hz

IP65 ENCLOSURE

Dimensions 234 x 162 x 108 mm Material PP

Kontrol Invikta Double

Designed for larger pools, Kontrol Invikta combines two solenoid driven dosing pumps with a multi measurement capability and an automatic proportional dosing system to deliver balanced chemical parameters for above ground and indoor and outdoor pools.

KONTROL INVIKTA DOUBLE

- for **pH** (0 14) and **ORP** (0 1000 mV)
- for **pH** (0 14) and **ORP** (0 1000 mV) and **Free chlorine** (0 – 5 ppm with amperometric probe)

SOLENOID DRIVEN DOSING PUMPS

Proportional dosing FWM (Frequency With Modulation) Flow rate 5 l/h; Pressure 5 bar

Wetted parts Body in PVC, membrane in PTFE

POOL SIZE Indoor 50 – 350 m³; Outdoor 50 – 300 m³



MAIN BOARD

Alphanumeric display 16 letters x 2 lines **Power supply** 100 – 240 Vac 50/60Hz

IP65 ENCLOSURE

PoolBasic Pro

Offering the fullest range of possible measurements, the PoolBasic Pro range still offers a user-friendly solution. It combines two peristaltic dosing pumps and a multi measurement capability with automatic proportional dosing designed for above ground, indoor and outdoor pools. PoolBasic Pro is also available with a 3 pump configuration.





POOLBASIC PRO 2 PUMP VERSION

- for **pH** (0 14) and **ORP** (0 1000 mV)
- for pH (0 14) and ORP with shuko (0 - 1000 mV)
- for pH Plus (0 14) and pH Minus (0 14)
- for pH (0 14) and Flocculant dosage
- for pH (0 14) and Hydrogen peroxide^(*)
- for **pH** (0 14) and **ORP** (0 1000 mV) and Conductivity $(0 - 20000 \mu S)$
- for **pH** (0 14) and **ORP** (0 1000 mV) and Free chlorine $(0 - 5 \text{ ppm})^{(**)}$

POOLBASIC PRO 2 PUMP MODBUS PROTOCOL **COMMUNICATION VERSION**

for **pH** (0 - 14) and **ORP** (0 - 1000 mV) and Free chlorine $(0 - 5 ppm)^{(**)}$

POOLBASIC PRO 2 PUMP B-WEEKLY TIMER VERSION

for pH (0 – 14) and Hydrogen peroxide(*)

POOLBASIC PRO 2 PUMP SPA VERSION

- for **pH** (0 14) and **ORP** (0 1000 mV)
- for **pH** (0 14) and **ORP** (0 1000 mV) and Free chlorine $(0 - 5 \text{ ppm})^{(**)}$

POOLBASIC PRO 3 PUMP VERSION

- for **pH** (0 14) and **ORP** (0 1000 mV) and Flocculant dosage
- for pH Plus (0 14) and ORP (0 1000 mV) and **pH Minus** (0 – 14)
- for **pH** (0 14) and **ORP** (0 1000 mV) and Free chlorine $(0 - 5 \text{ ppm})^{(**)}$ and Flocculant dosage

PROPORTIONAL DOSING PUMPS

Flow rate 0.4 or 1.5 or 5 l/h; Pressure 1.5 bar

POOL SIZE Indoor 1 – 130 m³; Outdoor 1 – 110 m³

MAIN BOARD

Alphanumeric display 16 letters x 2 lines Power supply 220 Vac 50/60Hz

IP65 ENCLOSURE

Dimensions 234 x 162 x 108 mm Material PP

(*) By time and temperature compensation (**) With Free Chlorine Amperometric probe

Kommander

Kommander is an advanced combined system available with two or three peristaltic pumps with either automatic proportional or timed dosing that adjusts chemical parameters for both outdoor pools and spa centers. Furthermore, the Kommander comes with additional functions built in. The first is a weekly timer to regulate the circulation pump and the second is a temperature sensor that that activates the boiler using a relay switch.





KOMMANDER 2 PUMP VERSION

for **pH** (0 - 14) and **ORP** (0 - 1000 mV)

KOMMANDER 3 PUMP VERSION

for **pH** (0 - 14), **ORP** (0 - 1000 mV) and Flocculant dosage

PROPORTIONAL DOSING PUMPS

Flow rate 1.5 or 5 l/h; Pressure 1.5 bar

POOL SIZE Indoor 1 – 130 m³; Outdoor 1 – 110 m³

CIRCULATION PUMP AND BOILER ACTIVATION BY POWERED RELAY max 1.5 kW load

MAIN BOARD

Alphanumeric display 16 letters x 2 lines Power supply 220 Vac 50/60Hz

IP65 ENCLOSURE

Pre-assembled panel-mounted

The pre-assembled panels of SEKO's range offer advanced solutions for residential swimming pools. A flexible system for quick installation, that combines a pre-selected number of products assembled on a small panel, including a bypass probe holder, electrical box and controller unit.

- Advanced parameter setting
- Proportional dosing TWM (Time With Modulation) or FWM (Frequency With Modulation)
- Calibration process uses high quality pH and ORP probes
- Extra dosing available thanks to pH and chlorine relay
- Installation kit included

- Amperometric sensor measures chlorine PPM
- No technical skill required
- Remote alarm relay
- Circulation pump checks power on "Flow
- Input level probe checks product levels
- Multi language menu
- Circulation and boiler controller

INSTALLATION KIT INCLUDED

pH and ORP probes pH and ORP buffer solutions Ceramic foot filter and FPM non return valve 4x6 and 8x12 PVC and PE tubes



Easy Panel

A simple pre-assembled panel with an automatic proportional dosing system for simple chemical parameter regulation for indoor and outdoor pools.

EASY PANEL

- for **pH** (0 14) and **ORP** (0 1000 mV)
- for pH (0 14) and ORP (0 1000 mV) and Free **chlorine** (0 – 5 ppm with amperometric probe)

HYDRAULIC PROBE HOLDER

2 PSS7 (single probe)

2 Washable cartridge filters (80 µm)

MAIN BOARD

Power supply 100 – 240 Vac 50/60Hz Cable Box with power supply 230Vac to connect external dosing pump

Relay 250 V 10 A (Resistive Load) each measure



IP65 PRE-ASSEMBLED PANEL-MOUNTED

Dimensions 630 x 420 x 10 mm Material PP

Easy Basic

An entry level pre-assembled panel with an automatic proportional dosing system for simple chemical parameter regulation for above ground pools.

EASY BASIC

- for **pH** (0 14)
- for **ORP** (0 1000 mV)

HYDRAULIC PROBE HOLDER

2 PSS7 (single probe)

2 Washable cartridge filters (80 µm)

PROPORTIONAL DOSING PUMPS

Flow rate 1.5 or 5 l/h; Pressure 1.5 bar Santoprene tubing

POOL SIZE Indoor 1 – 130 m³; Outdoor 1 – 110 m³



MAIN BOARD

Alphanumeric display 16 letters x 2 lines Power supply 220 Vac 50/60Hz

IP65 PRE-ASSEMBLED PANEL-MOUNTED

Dimensions 630 x 420 x 10 mm Material PP

Easy Invikta

A simple pre-assembled panel with an automatic proportional dosing system for simple chemical parameter regulation for indoor and outdoor pools.

EASY INVIKTA

- for **pH** (0 14)
- for **ORP** (0 1000 mV)

HYDRAULIC PROBE HOLDER

2 PSS7 (single probe)

2 Washable cartridge filters (80 µm)

SOLENOID DRIVEN DOSING PUMPS

Proportional dosing FWM

(Frequency With Modulation)

Flow rate 5 l/h; Pressure 5 bar

Wetted parts Body in PVC, membrane in PTFE

POOL SIZE Indoor 50 – 350 m³; Outdoor 50 – 300 m³



MAIN BOARD

Alphanumeric display 16 letters x 2 lines **Power supply** 100 – 240 Vac 50/60Hz

IP65 PRE-ASSEMBLED PANEL-MOUNTED

Dimensions 630 x 420 x 10 mm

Material PP



equipment for

Professional Pools

page 20	Photometer Systems and PoolPhotometer	
	DPD Free Chlorine ; pH ; ORP ; Temperature	
	DPD Free/Total chlorine ; pH ; ORP ; Temperature	
	DPD Free/Total and Combine chlorine ; pH ; ORP ; Temperature	
page 22	Kontrol Panel and Kontrol Guard Tech	
	pH ; ORP ; Temperature	
	pH ; Free chlorine (Amperometric / Potentiostatic cell) ; Temperature	
	pH ; Free Chlorine (Amperometric / Potentiostatic Cell) ; ORP ; Temperature	
	pH ; Free/Total and Combine chlorine (Amperometric / Potentiostatic Cell) ; ORP ; Temperature	
page 26	Kontrol Tekna panels with controllers	
	pH ; ORP ; Temperature	
	pH ; Free/Total chlorine ; Temperature	
	pH ; Peracetic acid ; Temperature	
	pH ; Hydrogen peroxide ; Temperature	

Photometer

The main solution for professional swimming pools, Photometer is a complete controller that checks free, total and combined chlorine in the water. Thanks to its use of the DPD analysis method, it ensures a perfect results every time.

- Professional parameter setting
- Proportional dosing
- Calibration process uses high quality pH and **ORP** probes
- Extra dosing available thanks to pH and chlorine relay
- Installation kit included
- DPD analysis method measures Chlorine PPM

- Technical skill required
- Remote alarm relay
- Input level probe checks product levels
- Graphic display controller provides graphical historical reports for each measure thanks to the built-in data logger
- Multilingual controller interface makes for simple operation

MEASURING RANGE

pH 0 – 14 $ORP \pm 1500 \text{ mV}$ **Chlorine** 0 – 5 ppm^(*)

Combined chlorine 0 - 1/5/10/20/200 ppm(**)

(*) DPD Method Light wavelength 520 nm (**) Using software

Temperature: 0 - 100°C with PT100/PT1000 sensors

INSTALLATION KIT INCLUDED

pH and ORP Probes pH and ORP Buffer solutions **DPD** Buffer Solution



HYDRAULIC PROBE HOLDERS

Features a new hydraulic device that comes with a water drain dedicated to chemical reagents that are used during chlorine measuring. This allows a reduction in the amount of water used for chlorine measurement.

The water that is used for the pH and ORP probes can be returned to the compensation basin, while only the water containing chemical DPD reagent will be discharged into special tanks ensuring compliance with local laws. Fast installation comes thanks to quick couplings for water Inlet and outlet fixings.

The optical unit assures a very high accuracy level of chlorine measurement with a 520 nm sensor and LED light device. All Photometer use DPD powder for dilution prior to use that offers a reliable solution at each application.



Probe holder plexiglass body and photometer chamber IN/OUT tubes 8x12 mm Back pressure Temperature 60 °C

Photometer Systems

The SEKO Photometer Systems combine "6 parameter" multi-parameter controllers with a sampler dedicated to chlorine measurement.

PHOTOMETER SYSTEMS

- for Chlorine and pH
- for Chlorine and pH and ORP
- for Chlorine and Combined chlorine and pH and **ORP**

DPD PUMP

Peristaltic pump with 2 mechanical support Silicon tube 3x5 mm

Flow rate 0.15 cc sample measure

Back pressure

DPD Chemical 1 liter 24 days at 5 minute period sample

MAIN BOARD

Graphic display 240x128 pixel with back light Power supply 100 - 240 Vac 50/60Hz



IP65 ENCLOSURE BOX

Dimensions 276 x 514 x 127 mm **Material** ABS

Pool Photometer

The SEKO Pool Photometer features a "4 parameter" multi-parameter controllers combined with a sampler dedicated to chlorine measurement.

POOL PHOTOMETER

- for Chlorine and pH and ORP
- with Data logger included
- with Probe holder for Hydraulic closed loop

DPD PUMP

Peristaltic pump with 2 mechanical support Silicon tube 3x5 mm

Flow rate 0.07 cc sample measure

Back pressure

DPD Chemical 1 liter 24 days at 5 minute period sample

MAIN BOARD

Graphic display 240x128 pixel with back light Power supply 100 - 240 Vac 50/60Hz



IP65 ENCLOSURE BOX

Dimensions 630 x 420 x 10 mm Material PP

Kontrol Panels

Ultimate flexibility offered for the professional pool market comes from the Kontrol 800 panel range, which assures a complete and superior system to control large complex pool systems.

- Professional parameter setting
- Proportional dosing
- Calibration process uses high quality pH and ORP probes
- Extra dosing available thanks to pH and chlorine relay
- Installation kit included

- Technical skill required
- Amperometric measurement of chlorine PPM value
- Remote alarm relay
- Input level probe checks product levels
- Multi language menu
- Tekna Panel skid for quick installation

MEASURING RANGE

pH 0 - 14 $ORP \pm 2000 \text{ mV}$ Chlorine 0 – 5 ppm

Chlorine dioxide, Free amperometric chlorine, Total potentiostatic chlorine, Combined chlorine(*) 0 – 1/5/10/20/200 ppm

(*) Using software

HYDRAULIC PROBE HOLDERS

Transparent modular probe holder PSS-Plexi IN/OUT tubes 8x12 mm Pressure 5 bar Temperature 60 °C

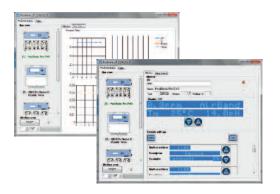
INSTALLATION KIT INCLUDED

pH and ORP probes, amperometric chlorine cell By-pass probe holder pH and ORP buffer solutions

Brass brush 5" with 80 µm cartridge Ceramic foot filter and FPM non return valve







PoolWare Kit for Kontrol 800 Panel

PoolWare software can control up to 99 Kontrol 800 panels simultaneously thanks to a data network.

It is possible to connect every unit to a PC which means a single software programme can set and manage all the system parameters.

Kontrol 800 Panel

A pre-assembled, panel-mounted system that manages and adjusts the pH and chlorine levels with automatic proportional dosing for public pools.

WITH AMPEROMETRIC PROBES

- for pH and ORP
- for Chlorine
- for Chlorine and pH
- for Chlorine and pH and ORP

WITH POTENZIOSTATIC PROBES

- for Chlorine and Chlorine dioxide
- for Chlorine and Chlorine dioxide and pH
- for Chlorine and Chlorine dioxide and pH and ORP

HYBRID MODEL

Free amperometric chlorine and total potentiostatic chlorine and combined chlorine (using software) and pH and ORP



MAIN BOARD

Alphanumeric display 20 letters x 4 lines **Power supply** 100 – 240 Vac 50/60Hz

IP65 PRE-ASSEMBLED PANEL-MOUNTED

Dimensions 276 x 514 x 127 mm Material PP

Tekna Panel Skid for Kontrol 800 Panel

A pre-assembled, panel-mounted skid featuring solenoid driven dosing pumps and controllers that comes in both a digital and analogue version.

TEKNA PANEL

- **ANALOGUE** 2 Tekna AKL
- **DIGITAL** 2 Tekna TPG

SOLENOID DRIVEN DOSING PUMPS

Tekna AKL 603 or 803 analogue solenoid driven dosing pump with constant manually adjustable flow

Tekna TPG 803 digital solenoid driven dosing pump with manually adjustable constant flow rate, or with proportional flow rate that is based on readings from an external analogue (4 – 20 mA) or digital signal (water meter)

(603) Flow rate 4 - 8 l/h; Pressure 2 - 12 bar**(803) Flow rate** 20 – 110 l/h; **Pressure** 0,1 – 5 bar Wetted parts Body in PVDF; Membrane in PTFE



POOL SIZE

(603) Indoor 150 – 600 m³; Outdoor 100 – 500 m³ (803) Indoor 300 - 1500 m³; Outdoor 200 - 1200 m³

MAIN BOARD

Alphanumeric display 16 letters x 2 lines **Power supply** 100 – 240 Vac 50/60Hz

IP65 PRE-ASSEMBLED PANEL-MOUNTED

Dimensions 600 x 300 x 10 mm Material PVC

Kontrol Guard Tech

The Kontrol Guard Tech is the most advanced model in the SEKO range of controllers. The new Kontrol Guard Tech unit, with its 5" digital graphic display, combines the traditional elements of control and dispensing with a totally digital control system, which facilitates the setting and monitoring of various parameters, depending on the application, using and comparing historic values to identify or analyze any errors.

- New box design, with increased instrument protection
- Graphic display 5" (240x128 pixel) for easier reading
- Control unit with full parameter access for complete monitoring
- Communication via Serial Port RS48 by MODBUS RTU/ASCII protocol for remote control interface

- Easy to set parameters for quick technical overview
- Multiple language menu for flexible operator interface
- Control unit has galvanized electrical and measuring insulation to ensure reliable performance
- CE/UL compliant to ensure full health and safety compliance

MEASURING RANGE

pH 0 - 14 $ORP \pm 2000 \text{ mV}$ Chlorine 0 – 5 ppm Chlorine and Chlorine dioxide 0 - 1/5/10/20/200 ppm Free amperometric chlorine 0 - 1/5/10/20/200 ppm Total potentiostatic chlorine

0 – 1/5/10/20/200 ppm Combined chlorine(*) 0 - 1/5/10/20/200 ppm Turbiditv(*)

0 - 4/40/400/4000 NTU

(*) Using software

HYDRAULIC PROBE HOLDERS

Transparent modular probe holder PSS-Plexi IN/OUT tubes 8x12 mm Pressure 5 bar Temperature 60 °C

MAIN BOARD

Graphic display 5" 20 letters x 4 lines **Power supply** 100 – 240 Vac 50/60Hz

IP65 CABINET

Dimensions 440 x 740 x 175 mm Material PP

INSTALLATION KIT INCLUDED

pH and ORP probes, amperometric chlorine cell By-pass probe holder

pH and ORP buffer solutions Brass brush 5" with 80 µm cartridge













INTUITIVE ICONS AND CLEAR DISPLAY

Thanks to the high contrast image of the graphic display, and the easy to read and self explanatory icons that are used, the operator is guided step by step through the applications.

WITH AMPEROMETRIC PROBES

- for Chlorine
- for Chlorine and pH
- for Chlorine and pH and ORP
- for Chlorine and pH and Turbidity

WITH POTENZIOSTATIC PROBES

- for Chlorine and Chlorine dioxide
- for Chlorine and Chlorine dioxide and pH
- for Chlorine and Chlorine dioxide and pH and **ORP**

HYBRID MODEL

- Free amperometric chlorine, Total potentiostatic chlorine, Combined chlorine and pH and ORP
- Free amperometric chlorine, Total potentiostatic chlorine, Combined chlorine and pH and ORP and Turbidity

PH/ORP MODEL

for pH and ORP

Kontrol Tekna panels

Kontrol Tekna panels benefit from the robust Tekna range of pumps, offering the professional pool operator peace of mind and a completeness of range.

- Professional parameter setting
- Proportional dosing
- Calibration process uses high quality pH and **ORP** probes
- Extra dosing available thanks to pH and chlorine relay

- Installation kit included
- Technical skill required
- Remote alarm relay
- Multi language menu
- Potentiostatic measurement of chlorine PPM value

TEKNA FEATURES

Compatible

The PVDF pump head that comes as standard offers complete compatibility for almost all chemicals that may be used in swimming pool water treatment. The ceramic ball valve which also comes as standard improves the pumping reliability and the chemical compatibility of the whole liquid end.

Reliable

Advanced design and manufacturing processes allows SEKO's diaphragm to have a unique life expectancy. Made of pure solid PTFE, the diaphragm is compatible with most chemicals and has been rigorously tested allowing SEKO to guarantee its diaphragms for 5 years that means routine diaphragm replacement is no longer needed.

MEASURING RANGE

pH 0 - 14

 $ORP \pm 1500 \text{ mV}$

Chlorine and Chlorine dioxide

0 - 0.5/ 1/ 2/ 5/ 10 / 20/ 200 ppm

Peracetic acid

0 - 500/2000/10.000/20.000 ppm

Hydrogen peroxide

0 - 500/1000/2000/10000/100000 ppm

HYDRAULIC PROBE HOLDERS

Transparent modular probe holder PSS-Plexi IN/OUT tubes 8x12 mm

Pressure 5 bar

Temperature 60 °C

MAIN BOARD

Alphanumeric display 16 letters x 2 lines Power supply 100 – 240 Vac 50/60Hz

IP65 PRE-ASSEMBLED PANEL-MOUNTED

Dimensions 700 x 420 x 10 mm Material PVC

INSTALLATION KIT INCLUDED

pH and ORP probes, amperometric chlorine cell By-pass probe holder pH and ORP buffer solutions

Brass brush 5" with 80 µm cartridge Ceramic foot filter and FPM non return valve













Tekna TPR Panel

A two solenoid driven dosing pump with control instruments pre-assembled panel-mounted system that features integrated by-pass hydraulic probe holders and transparent filter housing.

Comes with pre-wired connections contained within a IP65 standard electrical box.

TEKNA TPR PANEL

pH and ORP

POOL SIZE

(603) Indoor 150 – 600 m³; Outdoor 100 – 500 m³ (803) Indoor 300 – 1500 m³: Outdoor 200 – 1200 m³



PROPORTIONAL SOLENOID DRIVEN DOSING PUMPS

2 Tekna TPR 603 or 803 model with pH/ORP control meter built in

(603) Flow rate 4 - 8 l/h; Pressure 2 - 12 bar**803) Flow rate** 20 – 110 l/h; **Pressure** 0.1 – 5 bar Wetted parts Body in PVDF; Membrane in PTFE

Tekna TPR-TMP Panel

Offering a broader range of parameter measurements, Tekna TPR-TMP Panel is a two solenoid driven dosing pump with control instruments pre-assembled panelmounted system that features integrated by-pass hydraulic probe holders and transparent filter housing. Comes with pre-wired connections contained within a IP65 standard electrical box.

TEKNA TPR-TMP PANEL

pH and ORP and Chlorine and Chlorine dioxide and Peracetic acid and Hydrogen peroxide

POOL SIZE

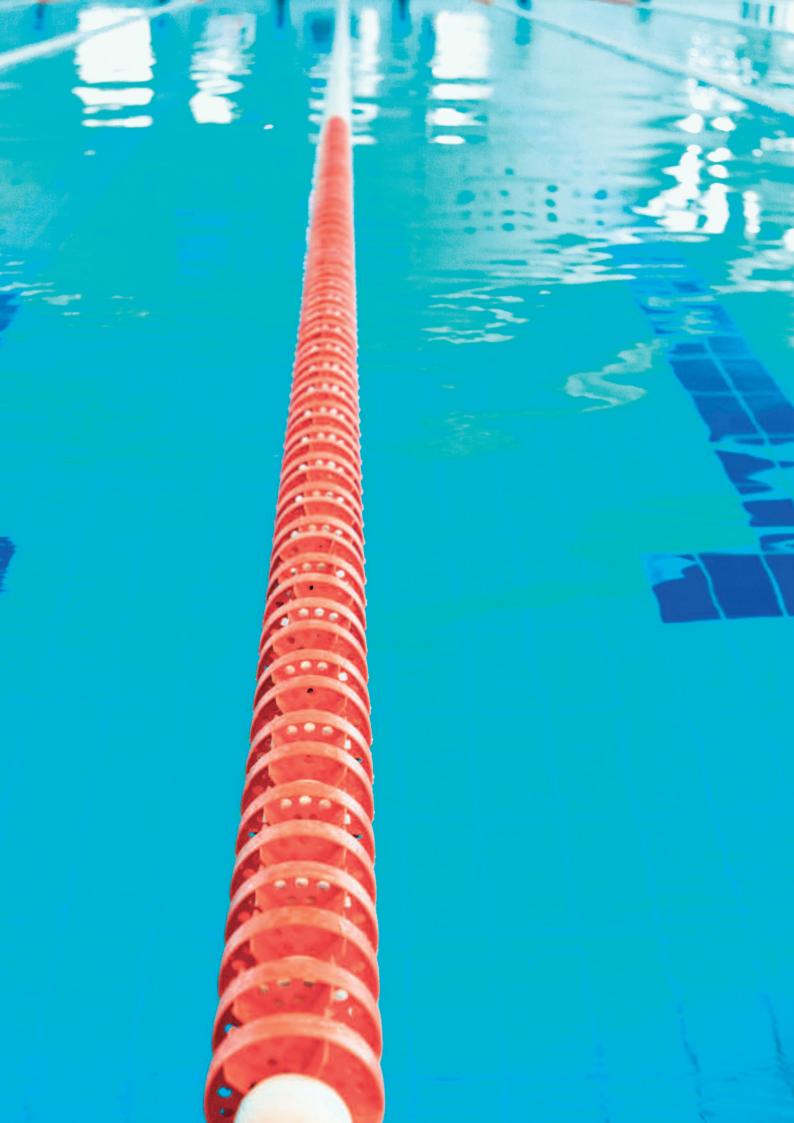
(603) Indoor 150 – 600 m³; Outdoor 100 – 500 m³ (803) Indoor 300 - 1500 m³; Outdoor 200 - 1200 m³



PROPORTIONAL SOLENOID DRIVEN DOSING PUMPS

Tekna TPR 603 or 800 model with pH/ORP control meter built in

1 Tekna TMP 603 or 800 model with Chlorine, Hydrogen Peroxide or Peracetic acid control meter (603) Flow rate 4 - 8 l/h; Pressure 2 - 12 bar(803) Flow rate 20 – 110 l/h; Pressure 0.1 – 5 bar Wetted parts Body in PVDF; Membrane in PTFE





equipment for

Pools & Spa

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Dosing pumps

A complete range of peristaltic, solenoid driven and motor driven dosing pumps for Swimming pool applications with options to meet any need.

P Series

Basic peristalitic pumps for residential above ground pools

MODELS

PE1.5 Flow rate 1.5 l/h; Pressure 0.5 bar PE5 Flow rate 5 I/h; Pressure 0.5 bar PE4 Flow rate 4 l/h; Pressure 0.5 bar Flow rate 7 l/h; Pressure 0.5 bar PE7



Advanced peristalitic pumps for seasonal dosing action or micro dosing application

MODELS

CK Flow rate 4, 2, 1 l/h; Pressure 1.5 bar Pro Flow rate 2.5 – 9750 ml/h; Pressure 1.5 bar

Kronos FM

Professional peristalitic pumps with stepper motor for high accuracy dosing action

MODELS

50 FM02 Flow rate 2 l/h; Pressure 3 bar 50 FM10 Flow rate 10 l/h; Pressure 2 bar **50 FM15** Flow rate 15 l/h; Pressure 0.1 bar

Invikta

Basic solenoid driven dosing pumps for residential outdoor pools

MODELS

KCL 633 Flow rate 5 l/h; Pressure 5 bar KCL 632 Flow rate 2 l/h; Pressure 7 bar

Kompact

Advanced solenoid driven dosing pumps for medium sized indoor and outdoor pools

MODELS

AML 200 Flow rate 5 or 3 l/h; Pressure 8 or 10 bar AMM 200 Flow rate 5 or 3 l/h; Pressure 8 or 10 bar



POOL SIZE Indoor 1 – 150 m³; Outdoor 1 – 110 m³



POOL SIZE Indoor 1 – 250 m³; Outdoor 1 – 110m³



POOL SIZE Indoor 1 – 280 m³; Outdoor 1 – 160 m³



POOL SIZE Indoor 1 – 250m³; Outdoor 1 – 110m³



POOL SIZE Indoor 5 – 250 m³; Outdoor 5 – 110 m³

Tekna

Professional wall mounted solenoid driven dosing pumps for medium or large indoor and outdoor pools

MODELS

ANALOGUE AKL - DIGITAL TPG; TPR; TCK

VERSION

603 Flow rate 4 - 8 l/h; Pressure 2 - 12 bar Flow rate 7 - 18 l/h; Pressure 1 - 16 bar 800 803 Flow rate 20 - 110 l/h; Pressure 0.1 - 5 bar

POOL SIZE

Indoor 5 – 250 m³; Outdoor 5 – 110 m³ Indoor 200 – 750 m³; Outdoor 150 – 650 m³ Indoor 300 – 1500 m³; Outdoor 200 – 1200 m³



Maxima

Professional base mounted solenoid driven dosing pumps features new revolutionary electronic stroke length regulation for medium or large indoor and outdoor pools

MODELS

ANALOGUE MKL - DIGITAL MPG; MPR

VERSION

603 Flow rate 4 - 8 l/h; Pressure 2 - 12 bar800 Flow rate 7 - 18 l/h; Pressure 1 - 16 bar 803 Flow rate 20 – 110 l/h; Pressure 0.1 – 5 bar

POOL SIZE

Indoor 5 – 250 m³; Outdoor 5 – 110 m³ Indoor 200 – 750 m³; Outdoor 150 – 650 m³ Indoor 300 – 1500 m³; Outdoor 200 – 1200 m³



Tekba

Professional digital solenoid driven dosing pump with mechanical stroke length regulation for medium or large indoor and outdoor pools

MODELS

ANALOGUE EML - DIGITAL EMC; EMM

VERSION

603 Flow rate 4 - 8 l/h; Pressure 2 - 12 bar800 Flow rate 7 - 18 l/h; Pressure 1 - 16 bar Flow rate 20 – 110 l/h; Pressure 0.1 – 5 bar 803

POOL SIZE

Indoor 5 – 250 m³; Outdoor 5 – 110 m³ Indoor $200 - 750 \text{ m}^3$; Outdoor $150 - 650 \text{ m}^3$ Indoor 300 – 1500 m³; Outdoor 200 – 1200 m³



Spring

Professional plunger motor driven dosing pumps for large indoor and outdoor pools

MODELS

MS1 Flow rate 220 l/h; Pressure 7 bar Flow rate 310 l/h; Pressure 7 bar

MS0 Flow rate 30 l/h; Pressure 5 bar Flow rate 42 l/h; Pressure 5 bar

POOL SIZE

Indoor 4000 - 10000 m³; Outdoor 1000 - 6000 m³ MS1 Indoor 400 – 2200 m³; Outdoor 300 – 1800 m³ MS0



Controllers

A complete range of control instruments for Swimming pool applications with the flexibility to meet every need.

Kontrol Flow 50

Advanced controller

MODELS

Flow rate 99999,99 l/sec



Kontrol 42

Advanced double parameter controller

MODELS

 $pH 0 - 14 ; ORP \pm 1500 \text{ mV}$

pH 0 - 14; **ORP** ± 1500 mV; **Flow rate** 99999,99 l/sec



Kontrol 100

Professional single parameter controller

MODELS

pH 0 – 14

 $ORP \pm 1500 \text{ mV}$

Chlorine and Chlorine dioxide 0 – 0.5/ 1/ 2/ 5/ 10/ 20/200 ppm



Kontrol 500

Professional single parameter controller with data logger included

MODELS

pH 0 – 14

 $ORP \pm 1500 \text{ mV}$

Chlorine and Chlorine dioxide 0 – 0.5/ 1/ 2/ 5/ 10/ 20/200 ppm



Blowers - Side channel compressors

Blower system for Spa and Professional Swimming pool applications.

- We carry a complete line of high quality, quiet yet powerful replacement air blowers for your swimming pools and spas
- Air Blower provide circulation and therapeutic action for both pools and spas.



BL040 Single impeller, single and 3-Phase

Flow rate 145 m³/h Pressure up to 200 mbar Vacuum up to -170 mbar

Noise 63 dB A



BL050 Single impeller Single and 3-Phase

Flow rate 210 m³/h **Pressure** up to 270 mbar Vacuum up to -220 mbar

64 dB A Noise



BL820 Double impeller 3-Phase

Flow rate 900 m³/h **Pressure** up to 370 mbar Vacuum up to -280 mbar

74 dB A Noise

Pool Cleaning Station

Specifically designed for intensive cleaning and disinfection of floors and surfaces.

- It avoids water wastage contributing to environmental protection and cost optimization
- Offers effective mixing thanks to assisted calibration
- Works without electricity or compressed air





Accessories

page 36	Probes
	рН
	ORP
	<u>Chlorine</u>
	Temperature Temperature
	Turbidity
	Flow rate
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page 39	Clamp saddles, Cables, Buffer solution pH/ORP and 5" Housings for filter cartridges
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Accessories

SEKO has developed a full range of accessories to ensure technical installers have every element they need to deliver the most professional installation.

SPH pH probes

MODELS

SPH-1 1.5M	Range 2 – 12 pH; Pressure 0 – 6 bar; Body Epoxy; Membrane Glass; Connections Cable 1.5 m + BNC
SPH-1 6M	Range 2 – 12 pH; Pressure 0 – 6 bar; Body Epoxy; Membrane Glass; Connections Cable 6 m + BNC
SPH-2	Range 2 – 12 pH; Pressure 0 – 6 bar; Body Epoxy; Membrane Glass; Connections S8
SPH-3 WW	Range $2-12\ pH$; Pressure $0-6\ bar$; Body Glass ; Membrane Glass ; Connections S8



SRH ORP probes

MODELS

SRH-1 1.5M	Range \pm 1000 mV ; Pressure 0 – 6 bar ; Body Epoxy ; Membrane Platinum wire ; Connections Cable 1.5 m + BNC
SRH-1 6M	Range \pm 1000 mV ; Pressure 0 – 6 bar ; Body Epoxy ; Membrane Platinum wire ; Connections Cable 6 m + BNC
SPH-1 6M AU	Range \pm 2000 mV; Pressure 0 – 6 bar; Body Epoxy; Membrane Gold; Connections Cable 6 m + BNC
SRH-3 PT	Range \pm 2000 mV ; Pressure 0 – 6 bar ; Body Glass ;Membrane Platinum wire ; Connections S8



CL Chlorine potentiostatic probes

Professional chlorine potentiostatic probe, that uses an amperometric cell and membrane cup.

MODELS

F-CL 2	Range 0 – 10 ppm ; pH 4 – 12 ; Flow rate 30 l/h ; Temperature 45°C ; Pressure 0,5 bar ; Membrane M48 ; Electrolyte ECC1 ; Application fields Organic free chlorine
F-CL 3	Range 0 – 10 ppm; pH 4 – 11; Flow rate 30 l/h; Temperature 45°C; Pressure 0,5 bar; Membrane M48 G; Electrolyte ECS1 Gel; Application fields Inorganic free chlorine



GPC Grounding Pipe Coupling

To obtain the best performance in pH and Redox measurements when using Tekna TPR pump with electrical grounding SEKO recommends using the GPC Series Grounding Pipe.

MODELS

GPC-63 DN63 diameter connection to glue tubes to PVC body GPC-50 DN50 diameter connection to glue tubes to PVC body

FEATURES Pressure 3 bar; Temperature 50°C



PT Temperature probes

MODELS

PT 100V	Range 0 − 100°C; Pressure 0 − 7 bar; Body Pyrex; Connections 5 m 3-wire cable
PT 100V PG	Range 0 – 100°C; Pressure 0 – 7 bar; Body Pyrex; Connections 6 m 3-wire cable
PT 100 NUT	Range 0 – 100°C; Pressure 0 – 7 bar; Body PP; Connections 1 m 2-wire cable
RNC	Pressure 0 – 7 bar ; Body AISI 304



S461/LT Turbidimetric probes

The measurement principle is based on the deviation of light produced by suspended particles in the liquid.

FEATURES Measure 0.02 - 10 FTU/NTU; **Pressure** 0 - 4 bar; **Temperature** $0 - 60^{\circ}\text{C}$

BODY material PVC special optical glass and Viton threaded connection 1" GAS

PROJECTOR AND SENSORS Scattering at 90° Light absorption with 10 m cable



SFW Paddlewheel flow sensor

The SFW paddle wheel flow sensor is designed to be used with every kind of solid-free liquid. The sensor offers highly consistent and repeatable measurements of flow from 0.15 m/s (0.5 ft/s) producing a frequency output signal.

MODELS

SFW-1 Size DN 100 - 4" SFW-2 Size DN 200 - 8"

FLUID Speed Range 0.15 to 8m/s [0.5 to 25ft/s]

Sensor body PVC-C; O-rings FPM; Rotor ECTFE (Halar®); **Shaft** Ceramic (Al₂O₃); **Bearings** Ceramic (Al₂O₃); IP65 protection degree



PSS-PLEXI Modular probes holder (Patented product)

Professional modular probe holder with amperometric cell for Free Chlorine measurement.

MODELS

- Flux / pH / ORP)
- Flux /pH / Amperometric chlorine
- Flux / pH / ORP/ Amperometric chlorine
- Flux /pH / Potentistatic chlorine

Connection In/OUT 8x12 mm (tube) Probes connection 24 mm Hydraulic By-pass Max. Temperature 60°C

Max. Pressure 5 bar Material Plexiglas without color



By-pass probe holder

By-pass probe holder for quick installation pH, ORP and Temperature probes.

Connection process By-Pass; No. Probes 1; Temperature 0 – 40°C; **PSS 7 SINGLE** Pressure 0 - 6 bar; Material PP + SAN



By-pass probe holder

By-pass probe holder for quick installation pH, ORP and Temperature probes.

MODELS

PSS 8-A Single Connection process By-Pass; No. Probes 3; Diameter 12 mm;

Temperature 0 - 40°C; Pressure 0 - 5 bar; Material PP +

Transparent SAN

PSS 8-A1 Single Connection process By-Pass; No. Probes 3; Diameter 12 mm;

Temperature 0 – 40°C; Pressure 0 – 2 bar; Material PP + Black PP

Connection process By-Pass; No. Probes 1; Diameter 33, 35 or 42 PSS 8-A Single mm; Temperature $0 - 40^{\circ}\text{C}$; Pressure 0 - 5 bar; Material PP +

Black PP

PSS 8-A Single Connection process By-Pass; No. Probes 1; Diameter 24 mm;

Temperature $0 - 40^{\circ}\text{C}$; Pressure 0 - 5 bar; Material PP +

Transparent SAN



Insertion probe holder

Pressurized probe holder for small residential pools.

PSS3	Connection process 1/2" G.M.; Probes connection PG 13,5 or Ø 12 mm;
	Temperature $0 - 60^{\circ}\text{C}$; Pressure $0 - 7$ bar; Material PVC

SPP Connection process 1"G.F.; Probes connection PG 13,5;

Temperature 0 − 60°C; Pressure 0 − 16 bar; Material PVC



Clamp saddles (for paddlewheel flow sensor)

FOR SFW-1 Size DN 100 – 4" / **fOR SFW-2 Size** DN 200 – 8"

MATERIALS Body PP (Polypropylene); Gasket FPM



CE cables with S7 heads (for probes)

MODELS

CE5B Length 5 mt.; Type of cable Mod. RG58 5 mm; Terminal block Soldered BNC CE10B Length 10 mt.; Type of cable Mod. RG58 5 mm; Terminal block Soldered BNC



CC15 cables (for paddlewheel flow sensor)

MODELS Length 15 mt.

FEATURES Resistance 130 Ohm/Km±5% ; Temperature -15 - 70°C ; Capacity Wire/Shield 150 pF/m; Capacity Wire/Wire 80 pF/m; Max Voltage 49V; Nominal section 8mm²



Certified buffer solutions

Complete buffer solution range for professional calibration.

MODELS

MODELS	
KIT ST	pH 4.00 and 7.00 ; Quantity 70 cc each pH 4.00 and 7.00 ; ORP 465 mV ; Quantity 70 cc each
ST PH 4	pH 4.00 ; Temperature 20 °C ; Quantity 250 ml
ST PH 7	pH 7.00 ; Temperature 20 °C ; Quantity 250 ml
ST PH 7	pH 9,22 ; Temperature 20 °C ; Quantity 250 ml
ST RX 465	ORP 465 mV ; Temperature 25 °C ; Quantity 250 m







Housings (for filter cartridges)

MODELS Minor 5" Pressure up to 8 bar; Flow rate up to 120 L/min; Temperature 2 − 40 °C

MATERIALS Non-toxic materials; Head Loaded PP; IN/OUT threaded inserts Brass; Cup SAN; O-Ring NBR



Filter cartridges

MODELS RLN 20μm Temperature 2 – 40 °C / RLN 80μm Temperature 2 – 40 °C MATERIALS Non-toxic materials; Filtering Nylon (polyamide); External supports PP; Cup PP; Seals EPDM



Faucet

MODELS Connections IN ½ Gas F – OUT ½ Gas M; Material Grey PVC- UC Body



TC1 Threaded water meters

Single-jet water meters with pulse sender, dry dial and roller reading. Suitable for cold water up to 30° C.



MODELS

25 MM / 1" 4 pulse/L or 1 pulse/L Max Flow (short period) 7 m³/h; Nominal Flow $3.5 \text{ m}^3/\text{h}$; Min Flow (accuracy ±5%) 70 l/h 50 MM / 2" 4 pulse/L or 1 pulse/L Max Flow (short period) 30 m³/h; Nominal Flow 15 m 3 /h; Min Flow (accuracy ±5%) 450l/h

FC Flanged water meters

Woltmann series water meter with dry dial reading and pulse sender. Suitable for cold water up to 30°C.



DN 80 / 3" Max Flow (short period) 80 m³/h; Nominal Flow 40 m³/h; Min Flow (accuracy $\pm 5\%$) 0,7 m³/h DN 100 / 4" Max Flow (short period) 120 m³/h; Nominal Flow 60 m³/h; Min Flow (accuracy ±5%) 1,2 m³/h



SER Tanks in polyethylene

Our tanks are designed to be assembled with dosing systems, with mixers and motor driven pumps or solenoid driven dosing pumps. All are made from food-safe polyethylene, and are resistant to almost all chemicals normally encountered.

MODELS

50	Capacity 50 Litres;	Height 45,5 cm;	Ø 40 cm
100	Capacity 100 Litres ;	Height 64 cm;	Ø 46 cm
250	Capacity 250 Litres ;	Height 87 cm;	Ø 60 cm
300	Capacity 300 Litres ;	Height 95 cm;	Ø 67 cm
500	Capacity 500 Litres ;	Height 119 cm;	Ø 76 cm
1000	Capacity 1000 Litres ;	Height 122 cm;	Ø 109 cm



SML Reinforcement

Tank reinforcement made of PVC (20 mm thick) to be used to install mixers and motor driven pumps or solenoid driven dosing pumps on SER series tanks.

MODELS

100	Tank model SER 100	250	Tank model SER 250	
300	Tank model SER 300	500	Tank model SER 500	
1000	Tank model SER 1000			



Uncovered tanks in polyethylene

Designed to contain our SER series tanks. Material food-safe polyethylene.

MODELS

T150	Tank model SER 100;	Height 75,5 cm;	Ø 51 cm
T300	Tank model SER 250;	Height 87,5 cm;	Ø 67 cm
T400	Tank model SER 300;	Height 99,0 cm;	Ø 72 cm
T800	Tank model SER 500;	Height 120 cm;	Ø 90 cm
T1500	Tank model SER 1000;	Height 134 cm;	Ø 122 cm



Mixers

Mixers with 0.12 kW single phase electric motors, either slow (200 rpm) or fast (1400 rpm), flange attachment, shaft and propeller in PVC.

MODELS

Slow mixers (200 RPM)

Tank model SER 300; Shaft 900 mm; Propeller 220 mm **Tanks model** SER 500 / 1000 ; **Shaft** 1100 mm ; **Propeller** 220 mm

Fast Mixers (1400 rpm)

Tank model SER 300; Shaft 900 mm; Propeller 220 mm

Tanks model SER 500 / 1000; Shaft 1100 mm; Propeller 220 mm



Your Choice, Our Commitment

People choose to do business with SEKO for one or more reasons, but ultimately it is their choice, and therefore they merit our commitment. "Our commitment" is total and not only to our customers, but also to each other and the Company's to its employees.

VISION TO BE YOUR PARTNER OF CHOIC DOSING SOLUTIONS, GLOBALLY TO BE YOUR PARTNER OF CHOICE FOR

SEKO, is a passionate, dedicated Global Family of Professionals. We listen to each of our Partners and are committed to deliver the right solution in the Hygiene, Water Treatment and Industrial Process markets.

Values

MUTUAL RESPECT, QUALITY AND SPIRIT OF COLLABORATION

MUTUAL RESPECT

Mutual Respect because doing business is about being able to generate trust between Customer and Supplier. We'll deliver against our commitments, on time and in a transparent fashion, so you know can plan for your own business needs.

QUALITY

Quality for SEKO is a 360° reality. It covers not only the design, development, production and delivery of our products and solutions but it runs through the core professionalism of our teams.

SPIRIT OF **COLLABORATION**

Spirit of Collaboration is fundamental to our success and SEKO prides itself on how we work as a worldwide team, blending multiple country teams and functions to bring solutions to a Customer request or market need from an idea to the real world in very short time, across our global presence and beyond.



Your Choice, Our Commitment

In the modern Globalised world, being a privately owned Company has significant benefits especially for our Customers, our Partners. For over 40 years, SEKO has developed a Global organisation able to take the longer view, manage the pressure of the now, and to plan for the long term, delivering true Partnership for our Customers, with transparency and mutual respect for each other.

Whether it's for our reknown flexibility, our attention to detail, the high-quality products, or just the way we do business, we understand that it's Your Choice to do business with us. It is Our Commitment to fulfill your needs wherever you, our Customers are.



For more information about our portfolio, worldwide locations, approvals, certifications, and local representatives, please visit www.seko.com



As part of a process of on-going product development, SEKO reserves the right to amend and change specifications without prior notice. Published data may be subject to change.





Solutions for Water & Industry



Your Choice, Our Commitment





A Worldwide Group at your service

Globally Present, Locally Active

Our Global presence ensures that we can support our Customers wherever they are. Supported by teams in over 20 countries, as well as by our accredited Partner Distributor network, we ensure professional, local customer support in over 120 countries, with the added benefit of rapid delivery of goods to meet your needs.

All this backed up and supported by a world-class team of Technical Customer Service, able to provide all the back up or technical support needed. With ISO certificated production sites in Europe, the Americas and Asia, we are close to our customers and fully compliant with all local norms both in terms of our product designs as much as our production facilities.

How SEKO works for You

From the spark of an idea, through to the delivery of a solution, SEKO is with you all the way

SEKO supports its customers in every phase of a project, from the inception of an idea or request, through design and testing to launch and installation. Our in-house research, design and development teams work closely with the local teams, drawing on customer and market inputs. Then using state-of-the-art technologies to optimize costs and using our own specifically designed test benches to ensure rigorous, robust testing, we ensure a quality solution is delivered quickly to market.

No matter which processes and applications are planned SEKO has a solution in the cleaning and hygiene of kitchens and laundries and surfaces of all types in applications like Offices and Restaurants, Hospitals and Hotels, Retailers and Schools, Car Washes and Swimming Pools, Cooling Towers, Energy, Food & Beverage, Water & Gas Utilities Potable and Waste Water Treatment.

Partnership Philosophy

Being a privately-owned business means that we are here for the long term and can plan projects with and for our Customers, where both parties benefit. It means we can rapidly take decisions to invest our resources to ensure our optimum solutions are delivered.

Your Business, Our Solutions

Our extensive product range represents a unique combination of design, development and implementation know how. With a wide and ever evolving range of products and ancillaries, we can offer specific and comprehensive solutions for a variety of industrial applications. Our solutions are conceived to fit seamlessly into your operation, optimizing the processes and applications



SEKO's 3 business units, Cleaning & Hygiene, Water & Industry and Industrial Processes puts us in a unique position to be able to respond to the widest range of business needs, with a broad range that allows you the Customer to deal with just one company, simple.

Water Treatment Applications

An ever-evolving set of solutions safeguarding a precious resource

Water is becoming increasingly scarce, and therefore more valuable and as a result since the late '90s, the water treatment market has rapidly grown as have the challenges faced by those who work in the sector and who encounter increasingly complex challenges in water treatment processes, ranging from guaranteeing high water quality to meeting ever more closely monitored regulations.

From the treatment of water for human consumption, to the water used in cooling towers and the use of water in myriad industrial processes, SEKO has and continues to enjoy a strong reputation as a reliable and consistent partner delivering solutions tailored to meet any given need.

Exploiting our market experience, we design, develop, test and manufacture designs that ensure all our solutions and systems deliver:

Precision and Consistency

From managing the total cost of ownership of a system, whilst guaranteeing accurate measurement of critical water parameters from our Kontrol Series, through to chemically compatible raw materials, chosen for their robustness and durability in our manufacturing process, exemplified by our 5-year guarantee on our diaphragms, to our ATEX certificated pumps, SEKO is offers an optimal result, providing peace of mind and brand security.

Ease of Use and Installation

As a global company, we are attuned to the differing needs of individual markets. This is why, when we design a new product, we ensure that installation is simple and that we use uniform programming language solutions that are intuitive and easy to understand, in whatever language you speak.

Operational Efficiency

From the affordability of the range of solutions, through to thoughtful design elements such as an adjustable stroke length, single Wetted parts options, stabilised power supply, multiple model outputs in one pump footprint, base or wall mounting, and a common programming language, SEKO's pumps offer an exceptional mix of affordability and high performance across solenoid and electro-mechanical pump applications.



Tekna

Solenoid driven dosing pumps

Tekna Series is the range of innovative wall mounted solenoid driven dosing pumps that SEKO has designed following many years of experience working with its customers worldwide. These multifunctional solenoid driven dosing pumps maintain outstanding precision and reliability, critical to any customer, characteristics synonymous with the SEKO name.

- Capacity range: 0.4 110 l/h, up to 20 bar
- Wetted parts: PVDF, PTFE, EPDM, FPM and Ceramic
- Analogue and digital range with constant or proportional dosage









Using only premium materials in its manufacture, Tekna's pump head comes as standard in PVDF and with a ceramic ball valve. These features assure high performance for the chosen applications and improve the reliability of the pump assuring the chemical compatibility of the wetted parts.

SEKO's diaphragms are solid PTFE offering superior life expectancy and are guaranteed by SEKO for 5 years, making routine replacement no longer necessary.

Tekna features reduced energy consumption thanks to a Stabilized Multi Power Supply 100 - 240 Vac 50/60 Hz.

Tekna is also available in ATEX standard compliant versions. This pump offers digital dosing with a constant or proportional flow rate, that is manually adjustable from 0 - 100% and has a level control input.

Tekna ATEX comes as standard with a pump head in AISI 316. Optionally available are heads in PVDF, outer casing made in aluminium and with a manual priming valve.

- Constant or proportional dosing according the measured Chlorine, Hydrogen peroxide or Peracetic acid
- PT100 probe input for thermal compensation
- Repetition alarm relay
- Input On/Off for remote control
- 4 20 mA output for measure transmission
- Timer function
- ppm dosing
- Batch Mode & On/Off input
- Statistics menu
- Flow sensor
- Level control inputs & alarm output relay
- Password protection
- Proportional dosing using both analogue (4 - 20 mA) and digital inputs

Tekba

Solenoid driven dosing pumps

Tekba is a digital solenoid driven dosing pump with mechanical stroke length regulation. It represents the best compromise between reliability, dosing precision, and ease of use and has been designed following the positive customer feedback SEKO has received on the Tekna Series. The Tekba Series offers a modern and reliable product, a reference point in the base mounted dosing pump sector.

- Capacity range: 2.5 110 l/h, up to 20 bar
- Wetted parts: PVDF, PTFE, EPDM, FPM and Ceramic





Tekba benefits from a **standard PVDF pump head** and ceramic ball valve, providing pump longevity and compatibility with all principal water treatment applications.

Diaphragms of PTFE offer a superior life expectancy guaranteed by SEKO for 5 years, making routine replacement no longer necessary.

Comes with a Stabilized Multi Power Supply 100 - 240 Vac 50/60 Hz offering reduced energy consumption.

The solenoid only draws the required power to activate the pump, based on the working conditions which brings improved pump efficiency as performance is not affected by power supply fluctuations.

Programmable via its keypad, the flow rate can be manually or automatically adjusted, the latter using input signals, across a range from 0 (pump stop) to 100% of the maximum flow rate.

Both constant and proportional dosing is available dependent on model type, with the latter available in both analogue and digital versions.

- Low level alarm
- Proportional dosing using both analogue (4 – 20 mA) and digital inputs

Maxima

Solenoid driven dosing pumps

SEKO's range of base mounted solenoid driven dosing pumps features new revolutionary electronic stroke length regulation. The range offers both constant and manually adjustable, proportional flow rates, which can be based on either an external analogue or digital pulse signal.

- Capacity range: 0.4 110 l/h, up to 20 bar
- Wetted parts: PVDF, PTFE, EPDM, FPM and Ceramic
- Analogue and digital range with constant or proportional dosage





Built using premium materials Maxima comes as standard with a pump head made of PVDF offering superior chemical compatibility for industrial, waste water treatment and potable water applications.

Advanced design and manufacturing processes means SEKO's diaphragms are made of pure PTFE, ensuring compatibility with most chemicals. This also provides a superior life expectancy, which SEKO guarantees for 5 years, reducing operating costs.

The use of **ceramic balls** as standard improves the reliability of the pump and the chemical compatibility of the wetted parts.

Maxima is supplied with a Stabilized Multi Power Supply 100 - 240 Vac 50/60 Hz offering reduced energy consumption.

Designed around a single outer casing, Maxima offers **5 pumps** with **common fixing points**, allowing any selection of pumps to be quickly incorporated into pre-assembled skids.

- Constant or proportional dosing according the measured Chlorine, Hydrogen peroxide or Peracetic acid
- PT100 probe input for thermal compensation
- Repetition alarm relay
- Input On/Off for remote control
- 4 20 mA output for measure transmission
- Timer function
- ppm dosing
- Batch Mode & On/Off input
- Statistics menu
- Flow sensor
- Level control inputs & alarm output relay
- Password protection
- Proportional dosing using both analogue (4 - 20 mA) and digital inputs

Kompact

Solenoid driven dosing pumps

Kompact is a simple and reliable range of micro-processor based wall mounted solenoid driven dosing pump. The range has been designed to provide a general solution to the most commonly found daily needs. The range features both constant and proportional flow rates managed through a manually adjustable control dial on the front panel.

- Capacity range: 5 l/h at 8 bar or 3 l/h at 10 bar
- Wetted parts: PVDF-T, PTFE, EPDM, FPM and Ceramic
- Analogue and digital range with constant or proportional dosage





Kompact, even in its basic variant, uses premium materials in its manufacture. The **pump head** comes as standard in PVDF-T, but can be optionally specified in natural PVDF and comes with a ceramic ball valve as standard improving the reliability of the pump over time and offers chemical compatibility of the wetted parts. SEKO's diaphragms are made of pure solid PTFE offering a superior life expectancy guaranteed by SEKO for 5 years, making routine replacement no longer necessary.

Some variants come with a Stabilized Multi Power Supply 100 - 240 Vac 50/60 Hz offering reduced energy consumption. The solenoid only draws the required power to activate the pump, based on the working conditions which brings improved pump efficiency as performance is not affected by power supply fluctuations.

- Power-ON led indicator
- Multi colour LED status system
- Level control input
- Timed dosing with a weekly programmable timer
- Dosage in ppm, dosage batch
- Statistics
- Password protection for digital models
- Input ON-OFF (remote control)

Invikta

Solenoid driven dosing pumps

The Invikta Series is a series of micro-processor based solenoid driven dosing pumps. While Invikta may be the entry level to SEKO's range of solenoid driven dosing pumps, it still brings with it great reliability, quality construction and flexibility in the number of applications where it can work, such as: OEMs, Swimming Pools, Car Wash, Cooling Towers, Reverse Osmosis Systems and many other applications.

- Capacity range: 0.2 5 l/h, up to 7 bar
- Wetted parts: PVDF, PTFE, EPDM, FPM and Ceramic





As with the rest of SEKO's products Invikta, uses premium materials in its manufacture. The pump head is optionally available in PVDF and but the ball valves are ceramic as standard further enforcing the reliability of the pump and assures the chemical compatibility with all the wetted parts. SEKO's diaphragms are made of pure solid PTFE offering a superior life expectancy guaranteed by SEKO for 5 years, making routine replacement no longer necessary, making this essential pump a great entry point into the SEKO range.

External plastic enclosure is in PP which comes with IP65 class protection against jets of water and aggressive environments. A low-level alarm can be requested as an optional extra.

The range also features

Wall mounting

Accessories

for a perfect installation

Adjustables valves HY Series

The trouble-free operation of a pump depends on the correct pre-installation analysis that is specific for the required task. The consequent choice of accessories and their sizing are very critical for the correct and smooth performance of a reliable system.



Injection valves

Multifunction

valve

Fixed / Adjustable backpressure valves





Tork



Hydraulic double diaphragm dosing pumps with full motion mechanisms

SEKO's long standing experience of designing and producing pumps for heavy duty applications has been utilized for the design of the Tork series. It offers an outstandingly flexible pump configuration allowing for customization of the pump even post installation whilst remaining always easy to maintain.

- Capacity range: up to 2065 I/h, up to 200 bar
- Wetted parts: SS 316L, PP, PVDF and PTFE
- Certified ATEX 94/4/CE II 2 G E IIB T4 (for Zone 1)





Designed to produce low noise emissions and to minimize power consumption. Each mechanism comes complete with an internal gearbox; pumps with different speeds (strokes/min) can therefore be joined, allowing for **greater flexibility** in selecting the pumps themselves. Its high precision stroke adjustment, to an accuracy level ± 1%, can be both manually or electrically adjusted using SEKO designed electrical actuators.

Other features include a zero-leakage profile offering watertight construction for dosing toxic, corrosive and other hazardous liquids; its double diaphragm protection system immediately signals the anomaly whilst not stopping the pump from working, thereby preventing immediate downtime.

Manages **solid suspensions** thanks to the diaphragm not requiring perforated shields on the process side, which allows liquids containing solid suspensions to be pumped.

- Mechanical refilling system
- PTFE diaphragms compatible with a vast assortment of liquids
- Flow rate modularity
- Venting system
- Pressure relief valve

Stark



Hydraulic diaphragm dosing pumps with full motion mechanisms

The Stark series are hydraulic diaphragm dosing pumps suitable for applications that require very high levels of precision, manufactured with materials that ensure compatibility with the widest range of liquid dosing application.

- Capacity range: up to 660 l/h, up to 124 bar
- Wetted parts: SS 316L, PP, PVDF and PVC
- Certified ATEX 94/4/CE II 2 G E IIB T4 (for Zone 1)



Conceived to produce low noise emissions and to minimize power consumption. High precision stroke adjustment, both manual and via electric actuator.

Other design features include a zero-leakage profile offering watertight construction for dosing toxic, corrosive and other hazardous liquids; it also offers protection against pollutants which could contaminate the liquid that is being pumped.

The flow rate adjustment uses SEKO's AKTUA system that replaces the pump's manual flow adjustment device with an automatic system that offers remote management.

A mechanical refilling system maintains a constant hydraulic fluid level, thereby guaranteeing maximum precision and repeatability. It also helps manage the eventual deformation of diaphragm thereby increasing its lifespan and reducing operational costs.



- PTFE diaphragms compatible with a vast assortment of liquids
- Cartridge valves for maximum dosing precision.
- Venting system
- Pressure relief valve

Kosmo

Mechanical-return diaphragm dosing pump

SEKO's newest pump, Kosmo is a range of electric motor-driven pumps with mechanical diaphragm liquid ends and mechanical return aimed at delivering exceptional performance across a wide range of flow and pressure environments.

- Capacity range: up to 2300 l/h at up to 12 bar (10 bar for 2300 l/h)
- Wetted parts: SS 316L and PVDF



Range has two principal models MM1 and MM2 designed to be compact and robust. Offers excellent performance across a wide range of flow rates as low as 3.5 l/h up to 2300 l/h. This makes Kosmo ideal for **low discharge pressures** – for example in the water treatment industry, but also in the food industry in clean-in-place applications.

Designed using materials chosen for their robustness and conceived to work for long periods of continuous operation thanks to the benefits derived from its variable eccentric system.

Kosmo can effectively be used in any of the following applications: potable water treatment (injection of coagulants, flocculating agents, sodium hypochlorite, lime slurry, acid, bases, caustic soda, activated carbon, etc.); domestic or industrial waste water treatment, boiler feed water, reverse osmosis, cooling water; chemical treatment, electrolytic (electro-plating) treatments: addition of degreasing agents, cleaning agents, nickel electroplating and chemical nickel plating, copper plating, tinning; etc.



- Broad range of chemical compatible materials
- Permanent lubrication of mechanism
- Low noise operation
- Protection degree IP55

Spring

Plunger piston and mechanical diaphragm dosing pumps

Motor driven dosing pumps need to be robust, reliable and able to run on their own without supervision. SEKO's entry level offering in motor driven pumps is the Spring series. Three sizes of mechanism and a wide selection of models with varying performance profiles allow the user to find the appropriate solution for almost any application, offering accurate dosing even under fluctuating pressure conditions.

- Capacity range: up to 1200 l/h, up to 20 bar
- Wetted parts: SS 316L, PVC, PP and PVDF

Features a spring return mechanism in an aluminium housing. These pumps always deliver robust, affordable and efficient power. They offer flexibility in stroke length and motor speed which are separately controllable. Thanks to the mechanically actuated diaphragms, SEKO's Spring pumps can be used almost universally in low pressure applications with the additional benefit of being a zero-leakage solution.

The range also features

- Piston available as standard in SS316 or ceramic
- Mechanical diaphragm in PTFE
- Every pump can be equipped with an electric actuator which accepts a 4 - 20 mA signal

Spring PS1 Plunger piston dosing pumps

The PS1 series piston dosing pump offers a flexibility of choice combining different pump head and engine power options that ensures a solution for almost any eventuality or application.

The PS1 Series' performance achieves flow levels between 1.5 and 304 l/h at pressures up to 20 bar.

Each model can be configured with 2 different stroke rates.

Stroke lengths can be set automatically or manually using the AKTUA Kit which uses a 4 - 20 mA signal.



Spring PS1 is supplied with a 3 phase electric motor with IP55 protection. Optionally available on request is a single-phase motor.

The PS1 12 VDC range achieves flow rates between 34 and 350 l/h at up to 20 bar.

Spring PS2 Plunger piston dosing pumps

The PS2 series piston dosing pump also offers multiple combinations of pump heads and motor power that enables it to adapt to a large number of applications.

The PS2 achieves flow rates of between 40 and 1000 I/h with a pressure up to 20 bar. Whilst having similar features with the PS1 Series, PS2 Series is also flexible, being able to alter its hydraulic characteristics thanks to a bigger size of piston and longer stroke length, which therefore alters the flow rate and power.

Like PS1, PS2 pumps have a spring-loaded mechanism in an aluminium housing, and each model can be configured with 2 different stroke rates.



Stroke lengths can be set automatically or manually using the **AKTUA Kit** which uses a 4 - 20 mA signal.

PS 2 pumps are supplied as standard with a 3 phase electric motor, though a single-phase is available on request, both with IP55 protection.

Spring PS2 HP Plunger piston dosing pumps

The PS2 series of High Pressure Piston dosing pumps can adapt to a large number of applications.

The PS2 High Pressure Series covers a flow rate of 0.25 to 12 l / h with a back pressure of 100 bar. Like other variants in the Spring Pump series, PS2-HP has a spring return mechanism in an aluminium housing.

This model has 2 stroke rates...

Stroke lengths can be set automatically or manually using the AKTUA Kit which uses a 4 - 20 mA signal.



They can be powered by a 3-phase motor which has an IP55 electrical protection classification.

For use in applications requiring an economic and practical solution for dosing small amounts of product with at high pressure, for example in a boiler at up to 100 bar.

Spring MS1 Mechanical diaphragm dosing pumps

Mechanical diaphragm dosing pumps MS1 series offer several combinations of pump heads able to adapt to a large number of applications.

The MS1 Series achieves flow rates between 5.5 and 1200 I/h with a pressure of up to 16 bar. Multiple combinations of pump head and motor power provide options in selection of the optimal **combination** most suited to the specific application.

The MS1 pumps have a spring return mechanism in a single aluminium housing. Each model works with 3 different stroke rates.

Stroke lengths can be set automatically or manually using the AKTUA Kit which uses a 4 - 20 mA signal.



In addition, Spring MS1 pumps can be supplied with a single or three-phase electric motor with IP55 protection.

The MS1 12 VDC range achieves flow rates between 23 and 620 l/h at up to 16 bar.

Spring MSV Mechanical diaphragm dosing pumps

MSV is a new range of diaphragm dosing pump, designed to ensure reliable and effective long-term transfer of fluids. MSV features motorized mechanisms with high performance, high efficiency motors that are mounted vertically in a PP casing.

Reinforced by its double camshaft mechanical structure, the pump offers high levels of stability while remaining a low noise unit with exceptionally accurate flow rates.

Adaptable to a wide range of uses, Spring MSV provides high dosing accuracy across a wide variety of liquids, sludge and chemicals.



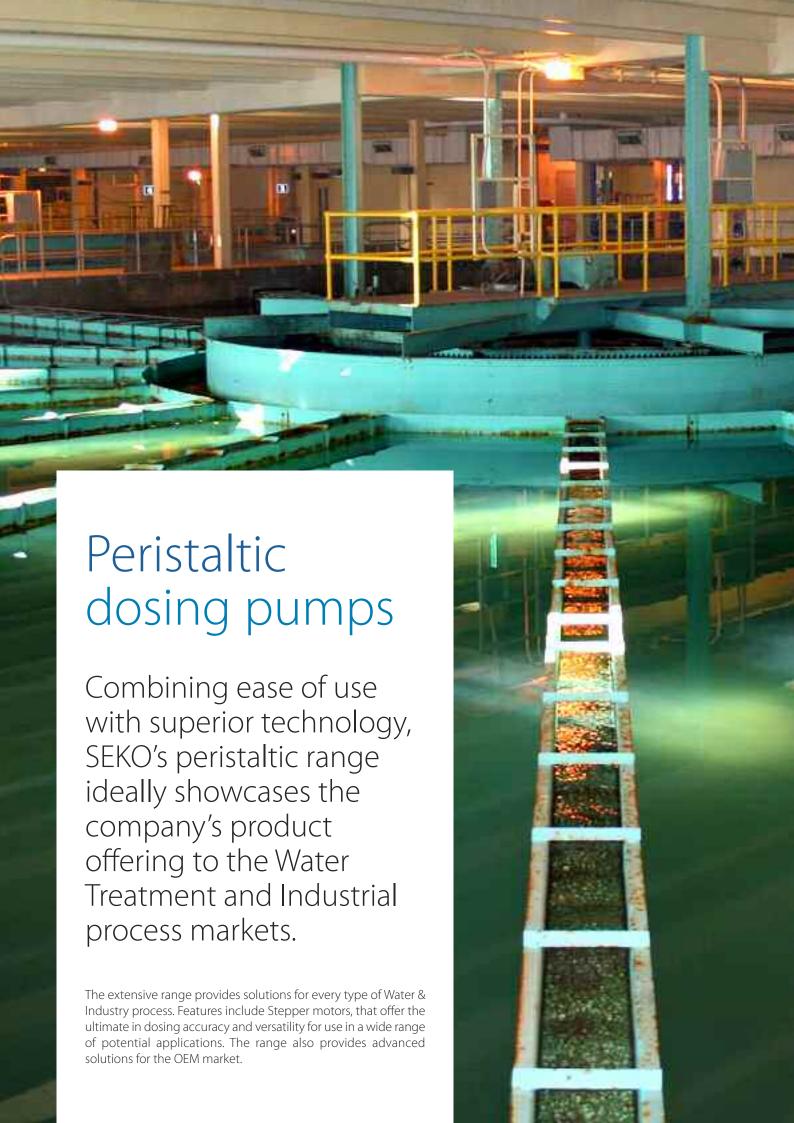
With flow rates between 10 and 120 l/h MSV can also be adjusted by regulating the stroke length.

Accessories

for a perfect installation

The trouble-free operation of a pump depends on the correct pre-installation analysis that is specific for the required task. The consequent choice of accessories and their sizing are very critical for the correct and smooth performance of a reliable system.





Kronos

Peristaltic dosing pumps

The Kronos Series of peristaltic dosing pumps is the result of SEKO's dedication to innovation in its product range and SEKO's passion for delivering dosing systems that meet the technical requirements of increasingly complex and large customers.

- Capacity range: 2 25 l/h, up to 4 bar
- Roll PTFE body, Enclosure box IP65
- Standard installation kit includes: Ceramic foot filter, FPM non return valve, PVC and PE tubes







Kronos' superior design principles allied to the use of a high quality stepper motors along with innovative electronic control systems brings accuracy of dosing down to 0.01% of its maximum flow rate. The dosing function is particularly accurate and reliable over time, while the stepper motor offers an extended lifetime and a superior quietness in operation (<35dB).

Digital programming of the parameters via keyboard and display ensures a fast set up and final check on the programming data. The easy and intuitive menu enables a simple setting of the various options without the risk of forgetting anything. The internal menu also allows users to check the statistics on the life of the tube and the operating life of the pump

All Kronos pumps can use a wide range of membrane tubes ensuring perfect chemical compatibility without any sacrifice in the mechanical resistance of the tube. Currently the range of available Sekotubes includes Santoprene, SekoBril, SekoFlex and SekoKem.

New to the range are several new tubes, fully tested in our laboratories such as SekoExtra, SekoMed and SekoFort, this last one being specifically aimed at use with mineral oil, HP-San for high pressure, Sekolast and Pharmapure tubes for high chemical compatibility.

Kronos is an ideal range for use in Water treatment applications. Satisfied customers can already be found in the following areas: drinking, water applications, irrigation systems, cooling tower applications, swimming pools, flocculent dosing systems, priming of chemical products that release gas easily.

- Anti-scaling proportional dosing via an external pulse signal
- Open drain valve for blow down function via a conductivity feedback measure
- Software settings that disable drain action after chemical dosing



Kontrol

Single, double, multi parameter controllers

The Kontrol Range represents SEKO's most advanced solution for the comprehensive monitoring of multiple water parameters. The result of SEKO's dedication to innovation and a passion for measurement solutions and systems to meet increasingly complex and large customers' technical requirements, Kontrol provides high levels of measuring accuracy and control with simple functionality.

The range enables the operator to monitor key values to suit almost any application covering the following parameters: pH, ORP, Conductivity, Chlorine, Dissolved oxygen, Turbidity, Suspend Solid, Peracetic Acid, Ozone, Bromine, Peroxide, Flow rate and Temperature.









All models in the Kontrol Range have a standard calibration routine (or wizard calibration) to help end users through probe maintenance operations. Moreover, the controller is equipped with programmes that assist the installer when it comes to the management and replacement of the measurement electrodes, thanks to a clever " electrode quality " control function.

All models also benefit from having a traditional compensation measures providing the extra assurances on the accuracy and repeatability of measurements taken.

- All Kontrol units are CE/UL certificated ensuring full health and safety compliance
- Easy to install and easy to maintain the electronic circuits
- High contrast image graphic display, and easy to read, self-explanatory icons
- Variable display backlighting allows the user to quickly understand the active operating mode

Kontrol 800 Tech Multi-parameter controller

The Kontrol 800 Tech series are professional controllers designed for advanced water treatment applications. All models are equipped with analogue and digital outputs that can be set by the end user via software.

Equipped with programmes that assist the installer in the management, replacement of the measurement electrodes, using the "electrode quality" control function. The data logger function helps monetarise measurements supported by graphic line feedback.

Equipped with independent and proportional control outputs, 4 programmable frequency and 4 4 - 20 mA current outputs, an RS485 serial port with MODBUS protocol, 6 relay outputs, probe quality control and is enabled for data collection.



Graphic displays ensures a fast set up and final check of the programming data, while the easy menu enables a simple set up of the various options without the risk of forgetting anything.

Internal menu enables monitoring of statistics on the probe life and the controller operation.

Kontrol 800 Multi-parameter controller

Kontrol 800 are user-friendly controllers designed for simple and advanced water treatment applications requiring simultaneous control of a number of chemical parameters. All models are equipped with analogue and digital outputs that can be set by the end user via software.

Equipped with independent and proportional control outputs, 2 programmable frequency and 2 4 - 20 mA current outputs, an RS485 serial port with MODBUS protocol, 6 relay outputs, probe quality control and is enabled for data collection.

The alphanumeric display ensures fast set up and final check on the programming data. The easy to use menu enables a simple setting of the various options without the risk of forgetting anything and the "electrode quality" function allows the user to ensure optimum performance of the equipment.



The internal menu allows users to check the statistics on the life of the probes and the operating life of the controller while the data logger function provides information that helps monetise the results from the measurements.

Kontrol 502 Dual-parameter controller

The Kontrol 502 series are professional controllers designed for advanced high-end water treatment applications. All models are equipped with analogue and digital outputs that can be set by the end user via software, who has full programming autonomy.

Kontrol 502 has independent and proportional control outputs with active PID, an RS485 serial port with MODBUS protocol, an optional USB port, a probe quality control and a comprehensive data collection capability.

The controller assists the installer in the management, replacement of the measurement electrodes, by means of the "electrode quality" control function.



Features a back-wash probe function and a remote alarm feature, using dedicated relays.

Data logging functions allow users and management to accurately track the performance of their systems in use

Kontrol 500 Single-parameter controller

Kontrol 500 are professional controllers designed for advanced water treatment applications. All models are equipped with analogue and digital outputs that can be set by the end user via software with full programming authority for the user.

The controllers are equipped with proportional and independent control outputs with PID enabled, an RS485 serial port with MODBUS protocol, a USB port on demand, a quality control of the probe, diverted outputs and a comprehensive data collection capability.

A **Data logger function** is included to monetarized the measure and give a graphic line feedback.



Features a back-wash probe function and a remote alarm feature, using dedicated relays.

Data logging functions allow users and management to accurately **track the performance** of their systems in use.

Kontrol 100

Single-parameter controller

Advanced controllers designed for high-end applications. All models are equipped with analogue and digital outputs that can be programmed by the end user via software providing the user has a great autonomy in programming.

Kontrol 100 instruments assist the installer in managing and replacing the measuring electrodes, using the "electrode quality" function.

To facilitate further legibility during programming and data reading, the reverse display function allows the user to reverse the writing on the screen to obtain a high contrast.





The multi-colour backlit function, with four different colors, makes it easy to interpret what function the controller is in even in poor light conditions.

Kontrol 100 features a Modbus RTU/ASCII protocol that allows remote control interface using a RS485 port, making using the system for larger multi-site complexes easier and more efficient.

Kontrol 50 Single-parameter controller

Kontrol 50 are controllers designed for applications covering multiple parameters. All models are equipped with analogue and digital outputs that can be set by the end user via software.

The controller is equipped with programmes that assist the installer in the management and replacement of the measurement electrodes, using the "electrode quality" control function.

The easy-to-use set up menu makes verification of the dosing and control system simple and guick while high quality probes gives high precision measurements.





Reading data from the Kontrol 50 is easy thanks to its real-time status bar and the clear measurement screen in the centre of the digital display.

As with all Kontrol systems, it benefits from a wizard calibration system to facilitate daily maintenance tasks and a multilingual menu to ensure end users ability to use and interpret the system

Kontrol 42 Dual-parameter controller

Kontrol 42 instruments are double parameter function controllers designed for simple water treatment applications. These very user-friendly systems combine advanced performance with robust design.

A technologically advanced controller that enables precise adjustments, its easy-to-use programming menu makes verification of the dosing and control system simple and quick while the quality of the probes used ensure high resolution measurements.



Reading the data from the Kontrol 42 is made easy thanks to its real time status bar and from the clear measurement display in the centre of the digital display.

As with all Kontrol systems, it benefits from a multilingual menu to ensure end users ability to use and interpret the system.

Kontrol 40 Single-parameter controller

Kontrol 40 is a single parameter controller that uses the latest technology to accurately and reliably monitor pH, Redox (ORP), flow, potentiostatic chlorine and conductivity in all principal water treatment applications.

The innovative electronic control board used in Kontrol 40, allows full exploitation of its capabilities resulting in improved accuracy and consistent repeatability of measurement.

Its easy-to-use programming menu makes verification of the dosing and control system simple and guick while the guality of the probes used **ensure** high resolution measurements.



Reading the data from the Kontrol 40 is made easy thanks to its real time status bar and from the clear measurement display in the centre of the digital display.

As with all Kontrol systems, it benefits from a multilingual menu to ensure end users ability to use and interpret the system.

Sensor and Probes

pH, ORP, Electrical and Inductive Conductivity, Chlorine and disinfectants, Dissolved Oxygen, Turbidity and Flow

Monitoring a limit value or building a closed control circuit is easy with our sensors – in an enormous range of measuring applications. The measured values are delivered in real time and can be flexibly connected to the various process interfaces via bypass, immersion or installed fittings

Our product line provides a wide range of sensors for different measuring tasks. The field of application covers everything from simpler water treatment tasks to industrial process waters with more stringent requirements in terms of temperature, pressure, contamination tolerance and chemical resistance.



pH measurement is based on the use of a pH sensitive glass electrode, a reference electrode and a temperature element to develops a potential proportional to the pH of the solution.

The reference electrode is designed to maintain a constant potential at any given temperature, and serves to complete the pH measuring circuit within the solution.

- For every application up to 130 °C and 16 bar
- Virtually maintenance-free
- Highly accurate with pressurizable liquid electrolyte
- Open hole, pellon or ceramic diaphragms





ORP is a potentiometric measurement of the oxidizing/reducing power of a liquid. An ORP measuring electrode is similar to a pH measuring electrode, except it is normally constructed of an noble metal (Platinum or Gold).

From a water treatment perspective, ORP measurements are used often to control disinfection with chlorine and chlorine dioxide.

- For every application up to 130 °C and 16 bar
- Virtually maintenance-free
- Highly accurate with pressurizable liquid electrolyte
- Open hole, pellon or ceramic diaphragms





The conductive principle sees an alternating current applied between sensor poles and the resulting current, dependent on the concentration of ions and on the length and area of the solution through which the current flows, is measured.

The current path is defined by the sensor geometry, or cell constant, which has units of 1/cm (length/area).

- From ultrapure water to high concentrated process media
- Cost-efficient for water / wastewater applications
- Conductive sensors for maintenance free applications





The **inductive** principle sees the field coil of the sensor stimulated by a sinusoidal voltage. The current field in the fluid, that depends on its conductivity, generates a voltage in the receiver coil of the sensor.

The measure of this voltage and the cell constant give the right value of conductivity of the fluid.

- From ultrapure water to high concentrated process media
- Cost-efficient for water / wastewater applications
- Inductive sensors for maintenance free applications





Dissolved Oxygen measuring sensor comes with an integrated temperature probe. The measuring technique is based on the following optical principle: a diode emits a blue light towards a support on which a fluorescent substrate is applied.

The substrate reacts by emitting initially a red light (luminescence), then returns to its initial state. The intensity of the produced red light and the return rate to the initial state are related to the present dissolved oxygen concentration.

- Innovative method gives accurate measurements over time, eliminating system calibration
- Maintenance required only every 2 years
- Suitable for variety of applications including where measuring liquid is almost stationary





The paddle wheel sensor consists of a freely rotating wheel with magnets which is perpendicular to the flow. As the magnets in the blades spin past the Hall sensor, a frequency and voltage signal which is proportional to the flow rate is generated.

According to Faraday's Law the voltage induced by the magmeter is proportional to the velocity of the conductor fluid. In the SFWE magmeter the physical principle at work is electromagnetic induction.



- Low cost solution with high flow system accuracy
- No pressure drop making it ideal for gravity flows
- Reduced dependence on flow, substances and film-forming media
- Magmeter without moving parts for measurement of conductive and homogeneous dirty media



The standard potentiostatic and amperometric probe design consists of two electrodes (anode and cathode) that measure a change in current caused by the chemical reduction of hypochlorous acid at the cathode. The current that flows because of this reduction is proportional to the chlorine concentration.

The sensor contains a platinum and a copper electrode. With the sample water acting as the electrolyte, galvanic potential develops between the two electrodes. With stable conditions of pH and water flow, the sensor current increases proportionally to the free chlorine content.

- Different membranes available to measure range of chlorine ions
- Only 30 seconds to achieve an accurate reading
- Reduced dependence on flow, substances and film-forming media
- Wide range of measure up to 200 ppm
- Complete collection range of parameter measure as: Chlroine, Peracetic acid, Ozone, Bromine, Peroxide





Turbidity and Suspend Solid is the cloudiness of a fluid caused by large numbers of individual particles. SEKO's probes are used to determine high and very high concentrations of suspended solids up to 150 g/l. They offer reliable measurement thanks to an infrared optical measurement at 880 nm.

Their dual pulsed light beam system compensates for drift from any optical components, while digitized signals inside the probe body reduce the possibility of electrical interference in the signal transmission.

- Measurement is performed by using a 90° scattered light method compliant with ISO 7027 / EN 27027
- Medium is in direct contact with the sensors to make the unit virtually independent from humidity and condensate water
- No need to replace silica gel for easier and cheaper maintenance



Accessories

Probeholders, power supply, temperature sensor, cables, buffer solutions and probe accessories









Metering, measuring and control systems

Panel-mounted and cabinet

When choosing to install a new piece of measuring equipment in your operation, the ability to simply "plug and play" is a key benefit, saving time and money and potential risks of selecting the incorrect or incompatible individual components. SEKO, reknown for its attention to offering practical and pragmatic designs, offers a range of preassembled panels that deliver outstanding results for most commonly found water treatment applications.

- SEKO's Kontrol Range delivers a modular technical solution for the Water Treatment & Industrial Process markets.
- The multi-parameter controllers are suitable for use in the following applications Municipal Water Treatment, Drinking Water, Cooling Towers, Swimming Pools, Waste Water Treatment.





The range also features a

- Measuring and control panels that offer an easy access "plug and play" solutions that make servicing and alterations simple. Available in the following models: Kontrol 800 Panel, Kontrol 800 CT Panel, ECS 500 Panel, Kontrol 500 Panel, Kontrol 40 Panel
- Metering, measuring and control panels that provide flexible, easy to use solutions, with simple maintenance using dosing pumps with built-in controllers. Available in the following models: Kronos panel, Tekna panel
- Kontrol Guard Tech measuring and control cabinet is a tamper proof enclosure containing instrumentation and manifold for measurement and control

Kontrol 800 Panel Panel-mounted multi-parameter

The SEKO range of bespoke cooling tower panels are designed to provide a simple and effective way of automating the control of chemicals in cooling tower applications.

These systems comply with the requirements for dosing to control microbiological growth, prevent corrosion and bleed off the tower as required.

A selection of pump options provides maximum flexibility to cater for all Cooling Tower chemical options.



These plug and play systems save valuable installation time and together with user friendly set up menu and easy maintenance, the SEKO Cooling Tower systems provide an ideal solution to dosing control.

Kontrol 800 CT Panel Panel-mounted multi-parameter

The Kontrol panel 800 comprises 2 key elements and is designed with SEKO's usual attention to ease of use and simple to perform set up and maintenance regime that requires little technical knowledge.



The Kontrol 800 controller is a dedicated multiparameter controller for complex applications that checks multiple chemical parameters simultaneously.

It comes with an alphanumeric display (4 lines x 20 characters), multi-language menus for easy operator interface and provides for remote control interface via a serial port RS48 by Modbus RTU/ASCII protocol.

Its universal power supply 100 – 240 Vac 50/60 Hz 20W delivers high technical performance and the galvanized electrical and measuring insulation ensures reliability.

The second is a piping hydraulic PSS-Tube probe holder with Volumetric Flow-meter, featuring a range from 300 to 3000 litres/hour, with an external reed sensor for proper flow rate.

ECS 500 Panel Panel-mounted multi-parameter

The ECS 500 panel helps to prevent legionella-related risks. The panel analyzes the water in a circuit, measures the concentration of free chlorine, and its regulation in a closed circuit

It is a plug and play panel, ready to use as soon as its installed and comes with several possible combinations for flexible solutions according to your needs.

Multiparameter instrument with data recording and direct reading of the measured parameters, with a potentiostatic probe.



Version dedicated to the measurement of chlorine with a potentiotatic probe.

Version dedicated to the measurement of chlorine, with a probe and ORP sensor.

Kontrol Guard Tech Cabinet multi-parameter

The new Kontrol Guard Tech unit, with its 5" digital graphic display, combines the traditional elements of control and dispensing with a totally digital control system, which facilitates the setting and monitoring of the various parameters, depending on the application, using and comparing historic values to identify or analyze any errors.



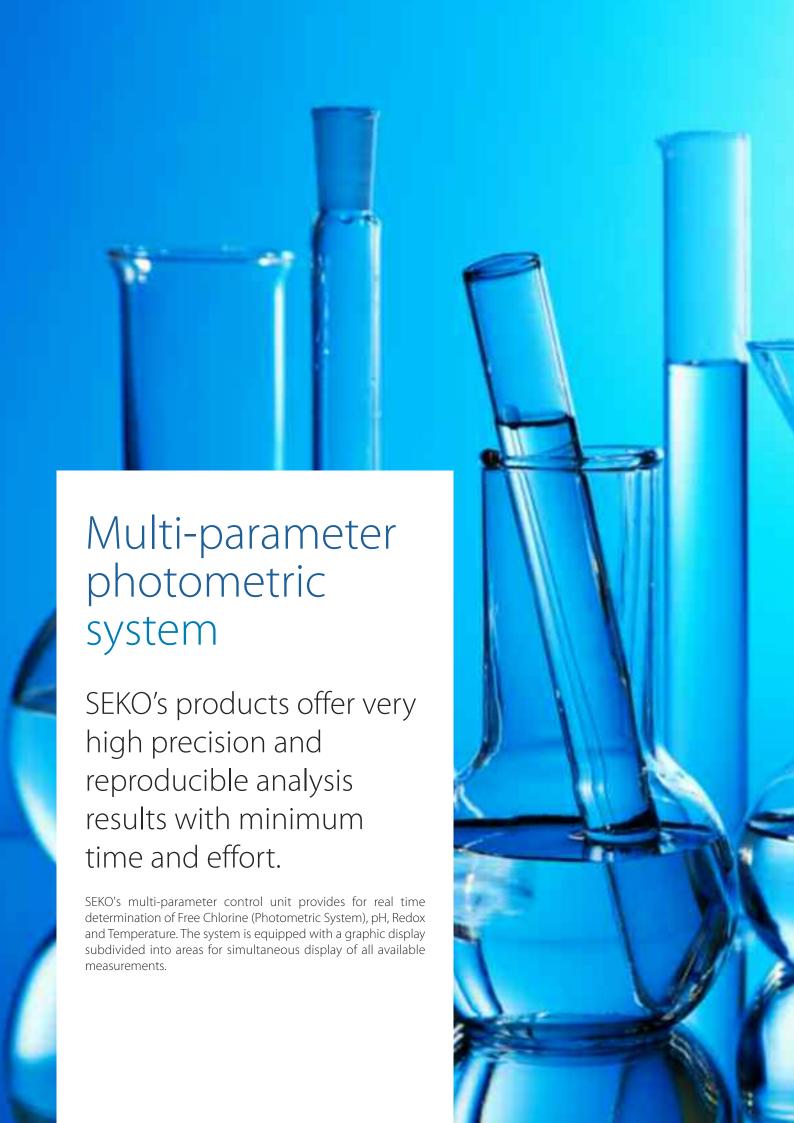
The Kontrol 800 Tech controller is a dedicated multiparameter controller for complex applications that checks multiple chemical parameters simultaneously.

It comes with an graphic display 5" (240x128 pixel), multi-language menus for easy operator interface. With the **high-contrast image** of the graphic display and the easy-to-read, explicit icons that are used, the operator is guided step-by-step through the applications. To improve the readability of the screen, the controller has several screen settings.

It provides for remote control interface via a serial port RS48 by Modbus RTU/ASCII protocol.

Its universal power supply 100 – 240 Vac 50/60 Hz 20W delivers high technical performance and the galvanized electrical and measuring insulation ensures reliability.

New box design for increased controller protection.



Photometer System

Multi-parameter analyser

Over the last decades, Photometry has developed as an essential method of analysis because it enables the "quantitative" determination of both organic and inorganic compounds. The technique uses the colorimetric methods characteristic of certain analytes, i.e. the properties of certain chemical reagents to develop colour with an intensity proportional to the concentration of a given substance, at a particular wavelength of the spectrum visible between the UV and IR.

Compared to UV or IR spectrophotometry, the colorimetric technique has the extraordinary advantage of relying on well-defined linear reactions and with few well-known interfering substances. The Palin method employs the interactive DPD principle to determine the concentration of certain oxidants such as: Free Chlorine, Total Chlorine, Chlorine Dioxide, Ozone, Peracetic Acid, Bromine, Permanganate etc. The DPD reacts with the oxidant present in the water, producing almost instantly a pink colour, making sure that all those factors that may affect measurement (pH, µS, °C, organic matter etc.) have no influence on the analytical methodology

The range enables the operator to monitor key values to suit almost any application covering the following parameters: pH, ORP, Free and Total Chlorine; Combined Chlorine by software



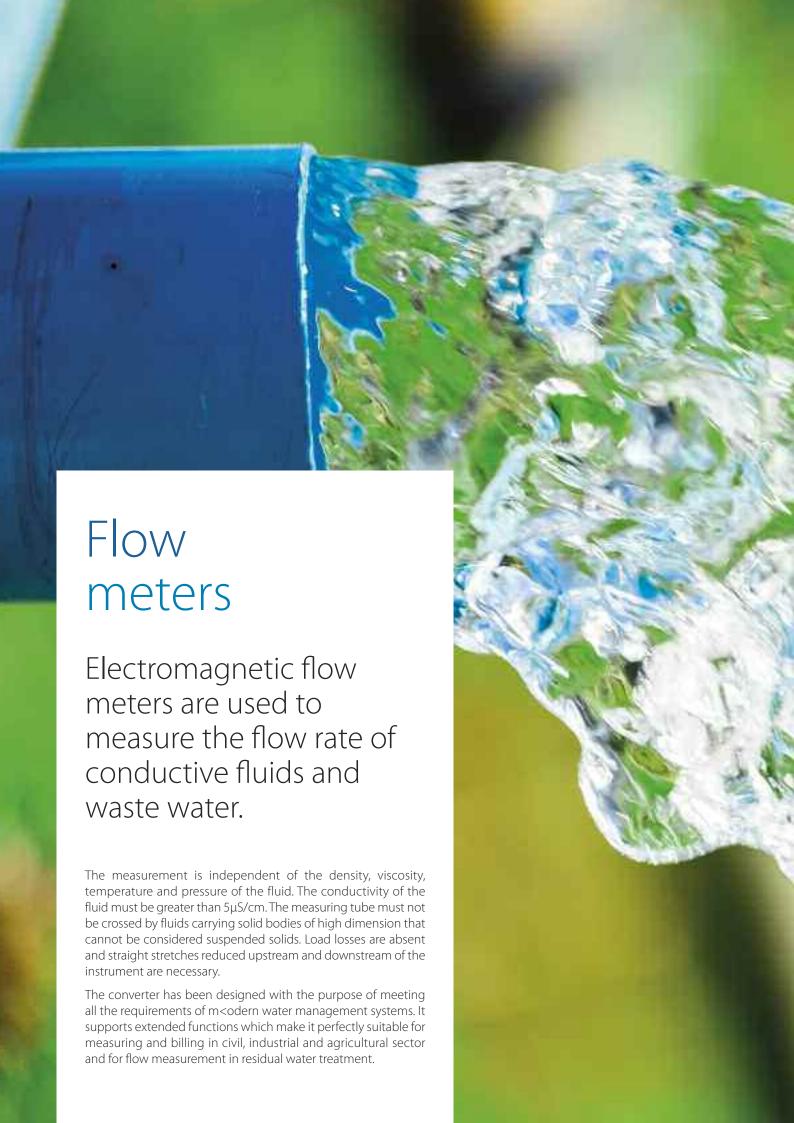


The system is equipped with a graphic display subdivided into areas for simultaneous display of all available measurements.



The range also features

- Multi parameter with high accuracy measure and integrated data logger
- Comes with RS485 port with ModBus RTU protocol for full compatibility remote data logging interface
- Chlorine Photometric chamber



SMAG 103

Flow Meters

Electromagnetic flow meters are used to measure the flow rate of conductive fluids and waste water. The measurement is independent of the density, viscosity, temperature and pressure of the fluid. The conductivity of the fluid must be greater than 5µS/cm.

- Size: DN15 DN2000 (Flange UNI 2223) / DN25 DN100 (Triclamp or DIN11851) / DN3 DN20 (Thread Gas or NPT)
- Pressure: PN10 PN64 / PN10 PN40 / PN16
- Body Material: Carbon Steel; SS 304 / Electrodes Material: Hastelloy C; SS 316 L







Principle applications include:

- Sludge and water treatment
- Control of civil and industrial wastes
- Measurement of industrial process water
- Control of the chemical dosage
- Energy industry: generation and distribution
- Extraction industries: quarries, mines

SMAG 103 Converter controller

The converter has been designed to meet all the requirements of modern water management systems. It supports extended functions which make it perfectly suitable for measuring and billing in civil, industrial and agricultural sector and for flow measurement in residual water treatment.





Duotek





AODD

Air operated double diaphragm pumps have long been recognized as the most flexible pumps of the industry for handling difficult liquids at relatively low pressures and flows. The range of applications is virtually limitless. SEKO AODD pumps come in many sizes and choices of materials of construction. Almost every type of liquid from highly corrosive acids through high viscosity paints and adhesives, to food and drink products can be pumped. The range covers everything from FDA (EC 1935/2004) Compliant pumps to ATEX Zone 1 and 2 versions.

- Capacity range: from 8 l/min to 1050 l/min, up to 8 bar
- Construction materials: PP, PVDF, SS 316, Aluminium, POMc
- Duotek FOOD realized in SS 316 electro-polished
- Duotek ATEX realized in PP+CF, PVDF+CF, Aluminium, AISI 316, POMc+CF







The range is 100% wet tested after final assembly including deadheading, priming, and sealing. Thanks to its seal-less design, SEKO AODD pump can dry-run without damaging the pump or system. The pump can be fully submerged according to fluid compatibility.

DuoTek FOOD pneumatic double diaphragm pumps, have been designed for use in the transfer of products used in the food industry. The pumps doublediaphragm manufactured with materials that conform to FDA (EC 1935/2004); the parts in contact with the liquid are polished by electrolysis and the SS316 and PTFE are both suitable for food use. These pumps can convey very high liquids viscosity and at temperatures up to 95°.

The range also features

- Portable and compact for multi-location use, optionally with trolley
- Self-priming dry up to 6 meters: works in suction lift applications
- All bolted construction: it provides maximum leak resistance and safety
- Conductive plastic pumps available

Dampers



The active pulsation damper is the most efficient way to remove pressure variations on the discharge of the pump. Pulsation dampers work actively with compressed air and a diaphragm, automatically setting the correct pressure to minimize the pulsations. Pulsation dampers require minimum maintenance and are, subject to the requirements of the application, available in the same housing and diaphragm materials as the pump.

- Construction materials: PP, PVDF, Aluminium, AISI 316
- ATEX certifications for Zone 1 and 2 in all versions

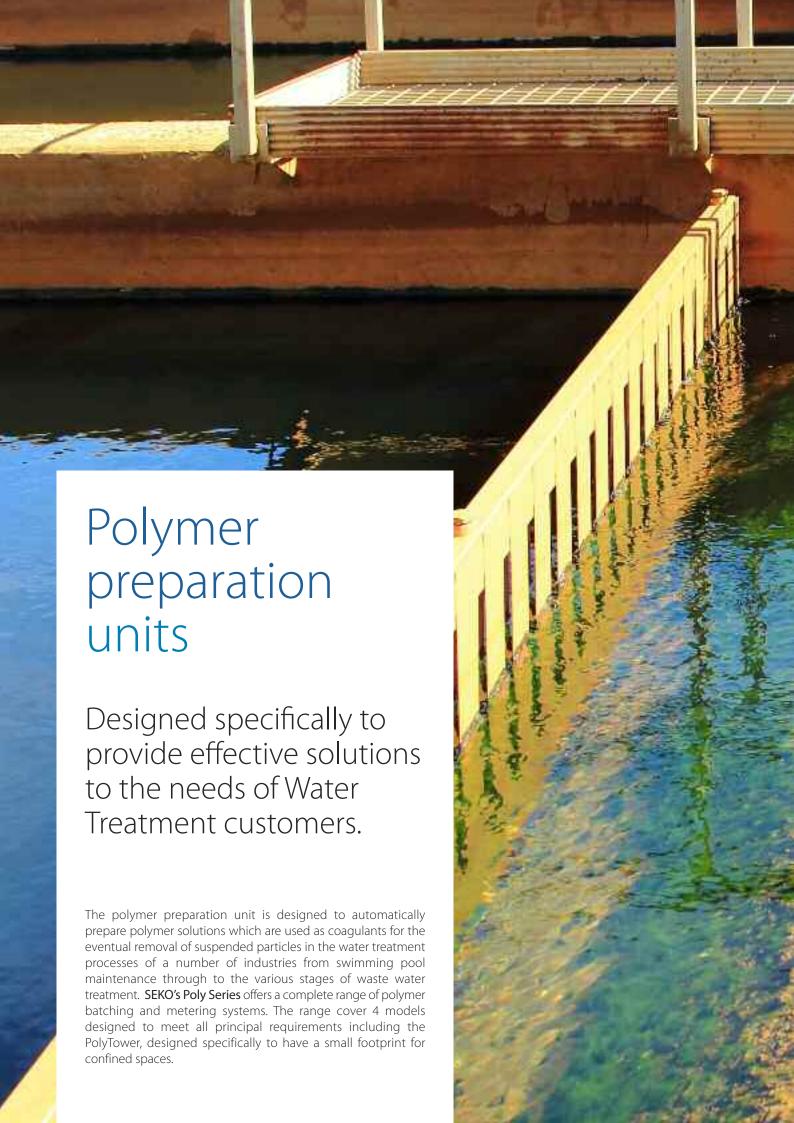


Accessories

for a perfect installation







PolyCendos

Effective polymer metering

Triple chamber continuous flow systems PolyCendos are used as batch flocculation aids for the preparation of polymer solutions and feature a storage tank subdivided into three chambers.

Processing of liquid polymer (0.05–1.0 %) and powdered polymers (0.05-0.5 %).

Minimal product carry-over.

Extraction of the polymer solution and drainage of the chambers via the front of the storage tank.

User-guided input of the solvent concentration as well as calibration of the powder metering unit and liquid concentrate pump.

Optional PIC Programmable logic.



Controller with PROFIBUS module.

Version with terminal box available on request.

Extraction rate up to 8,000 l/h.

PolyMan

Batching of polymer solutions in batch quantities

PolyMan batching stations are used for the manual batching of liquid and powdered polymers.

Ideal for use where there is no need for continuous operation.

Manual addition of flocculants in batch quantities.

Robust design.

Cost-effective

Batching tank manufactured from polypropylene including flushing system.



Gentle mixing for constant performance (electric stirrer).

Terminal box.

PolyTower

Compact double-decker

The compact double-deck PolyTower systems are subdivided into two storage tanks stacked on top of each other and are used as batch flocculation aids for the preparation of polymer solutions. The PolyTower product system is especially designed for confined areas thanks to its space saving design.

Processing of liquid polymer (0.05 - 1.0 %) and powdered polymers (0.05 – 0.5 %).

Offers user-guided input of the solvent concentration, as well as calibration of the powder metering unit. Comes with liquid concentrate pump water apparatus, with flow meter and fitting set for the dilution water.



Gentle mixing for constant performance (electric

Optional PIC Programmable logic.

Controller with PROFIBUS module.

Version with terminal box available on request.

PolyKompact

Super Compact High Performance

PolyKompact are super compact emulsion polymer preparation units where even the PolyTower might not fit. Available in 3 sizes, the PK series covers a wide range of applications ranging from water purification, chemical treatment, biological to mineral treatment.

For such systems, concentrations of 0.05 to 1.0% can be defined. The viscosity of the polymer solution produced must not, however, exceed 1500 mPas.

Flow rate of the preparation water can be adjusted to fully utilize the desired preparation range. Concentrations greater than 0.5% may reduce the performance of the preparation.



The maturation time required depends on the polymer and will depend on the extraction rate and the volumetric capacity of the PolyKompact system.

The system capacities range from 200 I for the PK200 up to 600 I for the PK600.

PolyMaster

Polymer batching systems ready for operation

PolyMaster are automatic triple chamber batching systems for powdered flocculant, suitable for the preparation of 0.05 to 0.5% polymer solutions

Systems assembled ready for operation.

Three individual cylindrical polypropylene storage tanks serve as batching, maturing and storage tanks.

Cylindrical storage tanks are hydraulically coupled via overflow channels.

Dry feeder with drive motor, dosing pipe heating and powder funnel with seal tight lid.



Flushing system for flushing and wetting of the powder.

Gentle mixing with two electric stirrers for constant performance.

Control cabinet for automatic control of the entire system.



Blowers

Side channel compressors and vacuum pumps

Side channel blowers work according to an impulse principle, or regenerative flow. This means that kinetic energy from a rotating impeller is transferred to the pumping medium and converted into pressure. The impeller is mounted directly on the motor shaft for frictionless compression and, together with the specially shaped housing, forms the side channel. The pumping medium is sucked in, compressed in the side channel and conveyed to the second stage after one rotation.

Here, it is compressed again before being discharged. This way a side channel blower can be used to generate both vacuum and blast air. The motor rated power determines the maximum differential pressure of the blower. Silencers fitted to the inlet and discharge sides ensure quiet operation while maximum operational reliability, even at high differentials, is ensured by having the bearings outside the compression chamber.

The unique principle of operation and design brings key advantages of:

- no wearing parts
- no lubrication required
- minimum maintenance
- silent operation
- smooth air flow
- can be mounted in any direction, with reduced footprint and installation costs









New variable frequency drive allows maximum performance of a common motor driven unit to be improved by 300%. The precision machine tool cutting, ensures the accuracy and quality, of the blower. All products go through a strict mechanical and electrical performance test, using PROE, UG, CAD and other computer aided design software and motion simulations that test all the design features prior to final manufacture.

Dual frequency (50/60HZ) and wide voltage can meet almost all the voltage levels in all regions of the world, while the external design of the bearing, can bear high working temperature, and improves the reliability and service life of the blower.

Aluminium alloy one-time die-casting molding, machining parts completed in the cutting process, ensure accuracy improvement of traditional technology. The impeller design increases performance versus competitor products of 20% while its IP55 class protection (class F insulation) makes it suitable for applications worldwide.



Dosing and injection packages

For more than 40 years SEKO has linked its success to a wide range of industrial fields by supplying complete dosing pumps and packages throughout the world. SEKO develops its own projects to best solve metering and pumping problems relating to different fluid properties and plant operating conditions.

The main industrial application areas for the dosing/injection packages designed and produced by SEKO are:

- Water treatment (municipalities, wastewater)
- Industrial sectors (steel, ceramics, food & beverages, detergents, paper, textile and pharmaceutical industries)
- Energy (boilers, desalination, cooling towers, environment)







Advantages of SEKO chemical dosing/injection packages

- Range that covers applications from water treatment to oil & gas, to the food industry
- Products designed, manufactured and commercialized by SEKO worldwide
- Design and implementation of systems, from mechanical installation to electrical and automation systems & turnkey projects
- Ability to match many and multiple parameters variances in pressures & flow rates, adverse environmental conditions, marine environment, ATEX / NON ATEX
- Professional design programs, software and personnel that ensure safety of processes
- Optional accessories: atomizers, instrumentation, custom connections, heating systems etc.
- Own maintenance service, prompt interventions, warranty of maintenance

Your Choice, Our Commitment

People choose to do business with SEKO for one or more reasons, but ultimately it is their choice, and therefore they merit our commitment. "Our commitment" is total and not only to our customers, but also to each other and the Company's to its employees.

VISION TO BE YOUR PARTNER OF CHOIC DOSING SOLUTIONS, GLOBALLY TO BE YOUR PARTNER OF CHOICE FOR

SEKO, is a passionate, dedicated Global Family of Professionals. We listen to each of our Partners and are committed to deliver the right solution in the Hygiene, Water Treatment and Industrial Process markets.

Values

MUTUAL RESPECT, QUALITY AND SPIRIT OF COLLABORATION

MUTUAL RESPECT Mutual Respect because doing business is about being able to generate trust between Customer and Supplier. We'll deliver against our commitments, on time and in a transparent fashion, so you know can plan for your own business needs.

QUALITY

Quality for SEKO is a 360° reality. It covers not only the design, development, production and delivery of our products and solutions but it runs through the core professionalism of our teams.

SPIRIT OF COLLABORATION

Spirit of Collaboration is fundamental to our success and SEKO prides itself on how we work as a worldwide team, blending multiple country teams and functions to bring solutions to a Customer request or market need from an idea to the real world in very short time, across our global presence and beyond.



Your Choice, Our Commitment

In the modern Globalised world, being a privately owned Company has significant benefits especially for our Customers, our Partners. For over 40 years, SEKO has developed a Global organisation able to take the longer view, manage the pressure of the now, and to plan for the long term, delivering true Partnership for our Customers, with transparency and mutual respect for each other.

Whether it's for our reknown flexibility, our attention to detail, the high-quality products, or just the way we do business, we understand that it's Your Choice to do business with us. It is Our Commitment to fulfill your needs wherever you, our Customers are.



For more information about our portfolio, worldwide locations, approvals, certifications, and local representatives, please visit www.seko.com



As part of a process of on-going product development, SEKO reserves the right to amend and change specifications without prior notice. Published data may be subject to change.

