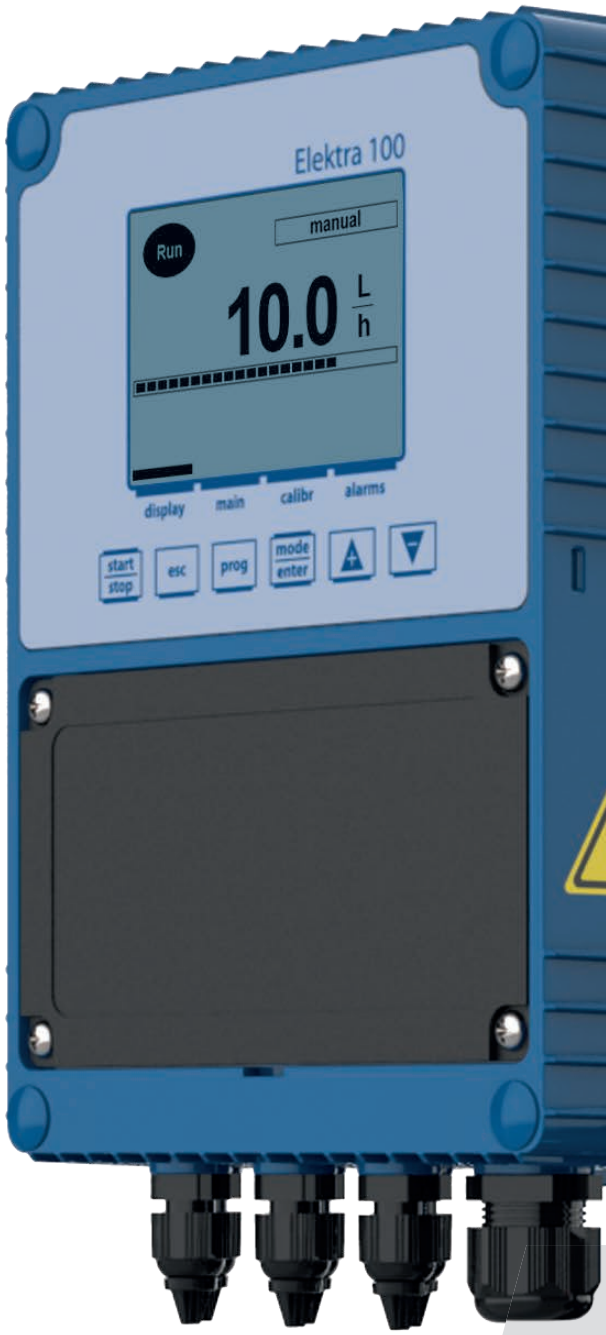
Elektra

SEKO brings connectivity to mechanical dosing

Your Choice,
Our Commitment

SEKO brings connectivity to mechanical dosing



SEKO's latest product development sees the modern benefits of remote connectivity to help manage complex operations to mechanical dosing pumps

The Elektra Controller brings the modern benefits of remote connectivity and the ultimate in precision digital dosing to mechanical dosing pumps to help manage complex operations further enhancing operational cost advantages through ease of programming from any smart device or pc as well as traditional display.

The Elektra controller can be specified as an optional extra SEKO's Spring range of motor driven pumps which have long been recognised for their affordability, low total cost of operation and ease of maintenance.

Key Features

Data on Demand offers remote data management and programming from built in hot spot, unique to Elektra

Real time and historic data available directly to any smart device or pc including alarms to help drive **effective maintenance planning** and rapid technical intervention

Reliability of SEKO's Spring range offers broad range of flow rates, including **high flow rate up to 1000 l/h** at up to 10 bar

Wide range of applications - suitable also for higher viscosity product applications

Digital dosing for precise dosing

Multiple operating modes – timed, batch, manual, proportional from analogue or digital signals

Intelligent Graphic display – shows red, yellow or green according to operating function

Electronic control unit interface **can be fixed in multiple positions** to facilitate operation/installation

Outstanding ease of programming coupled with low maintenance costs give **exceptional operating costs**

Energy efficient 3 phase motors, wide range of materials available

Data on Demand

In a world that is increasingly "connected" Elektra brings the benefits of **Data on Demand,** essential to running an efficient operation across potentially complex installations. Designed to manage operating costs of plants and installations that are continuously under cost pressure, Elektra helps **cost control and provides peace of mind** driven the knowledge of having exactly the right dosage being delivered consistently and with guaranteed repeatability.

Elektra has a **built-in web server** located in the system controller. This allows setup and management of the pump via Web browser, locally on a PC, notebook, **tablet or smartphone.** Pumps can be pre-programmed prior to installation and fine-tuned simply and quickly on site. Operators can obtain **real time and historic data** to manage performance, identify and rectify potential issues quickly, even from another office or location. This allows for targeted maintenance routines combined with alerts for rapid technical intervention helping manage overall costs.

Elektra Portal

Monitor page displays overview of the real-time status of the system including pump operating mode, pump status and alarm status.

General Settings page allows user to set the following system parameters: Maximum Flow Rate, Language, Flow Rate @ 4mA, Flow Rate @ 20mA, Measure Unit, Alarm Relay and Pause Input.

Configuration page selects pump operating mode and sets parameters according to the selected operating mode – manual, mA, V, ppm, Batch and Timed

Statistics page provides an overview of the operating system statistics.

Alarm page displays the alarms log. Each alarm is registered into the log file with the following information: date, time and alarm type.

Calibration page displays the calibration information and allows the user to set the parameters for either manual calibration or to setup and run the automatic calibration.

Network Settings page manages ModBus communication settings and also wireless network settings provided by the system.

System Revision displays the system firmware revision information and Permission allows the user to set or change the authentication password.

Wifi for a direct connection

that enables local programming of equipment

Modbus RTU with RS485 serial port

ModBus protocol means cross device connection and communication, providing maximum control and data on demand

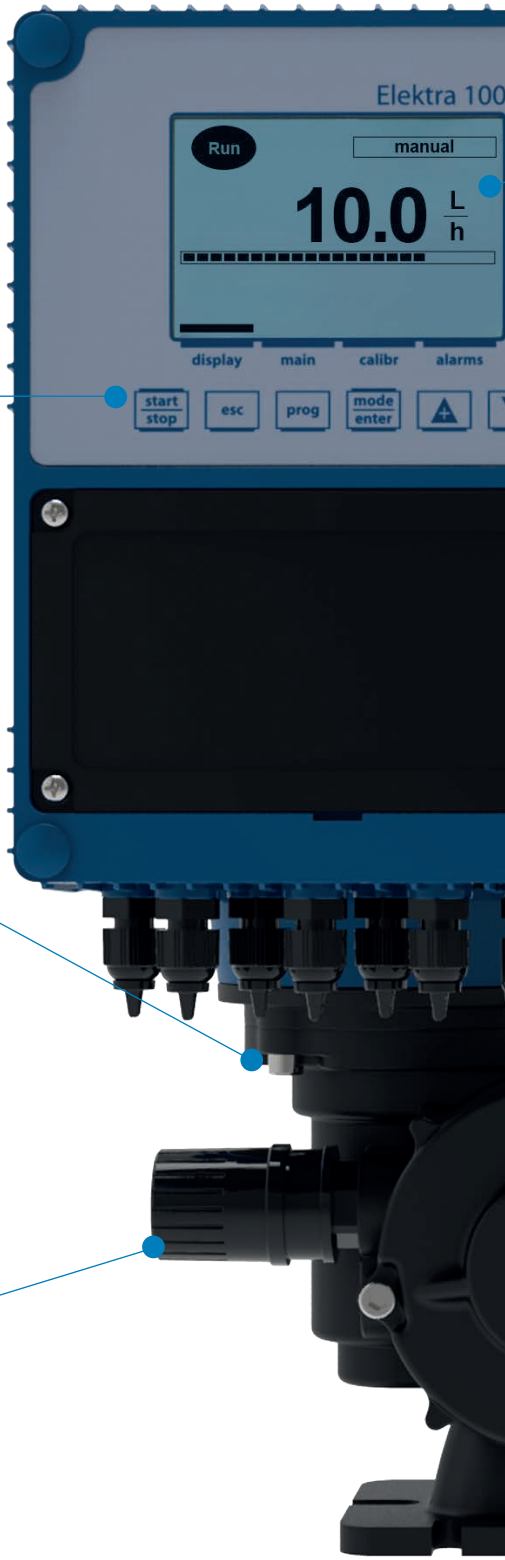
HTML programming interface

compatible with all internet browsers and for PC, tablet or any smart device

Technical features

Elektra pumps feature 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 digital dosing setting and mechanically actuated diaphragms, SEKO's Elektra pumps can be used across a broad range of pressure applications with the additional benefit of being a zero-leakage solution.



Multiple operating modes

Manual | Batch | Timed | Analogue mA | Analogue V | ppm | Pulse, digital signals

Simple fast programming

Elektra's controller allows simple fast programming from any smart device or laptop even remotely as well as from the display

Flexible position

Controller and motor can be fixed in 3 different positions for maximum flexibility

Alternative position

Top position

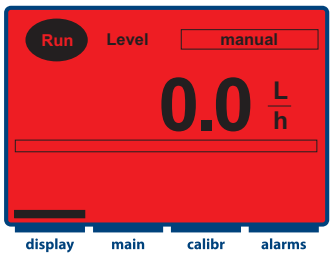
Standard position

Manual adjustment of stroke length

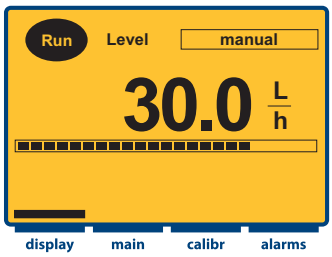
Provides the ultimate in accuracy when combined with the digital dosing of Elektra's controller

Smart digital display

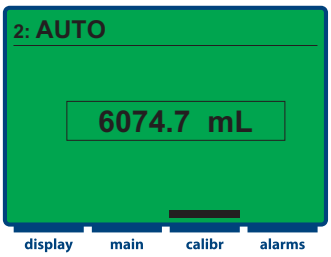
Offers not only multiple language options, but also changes colour according to operating function



Red - shows alarm mode



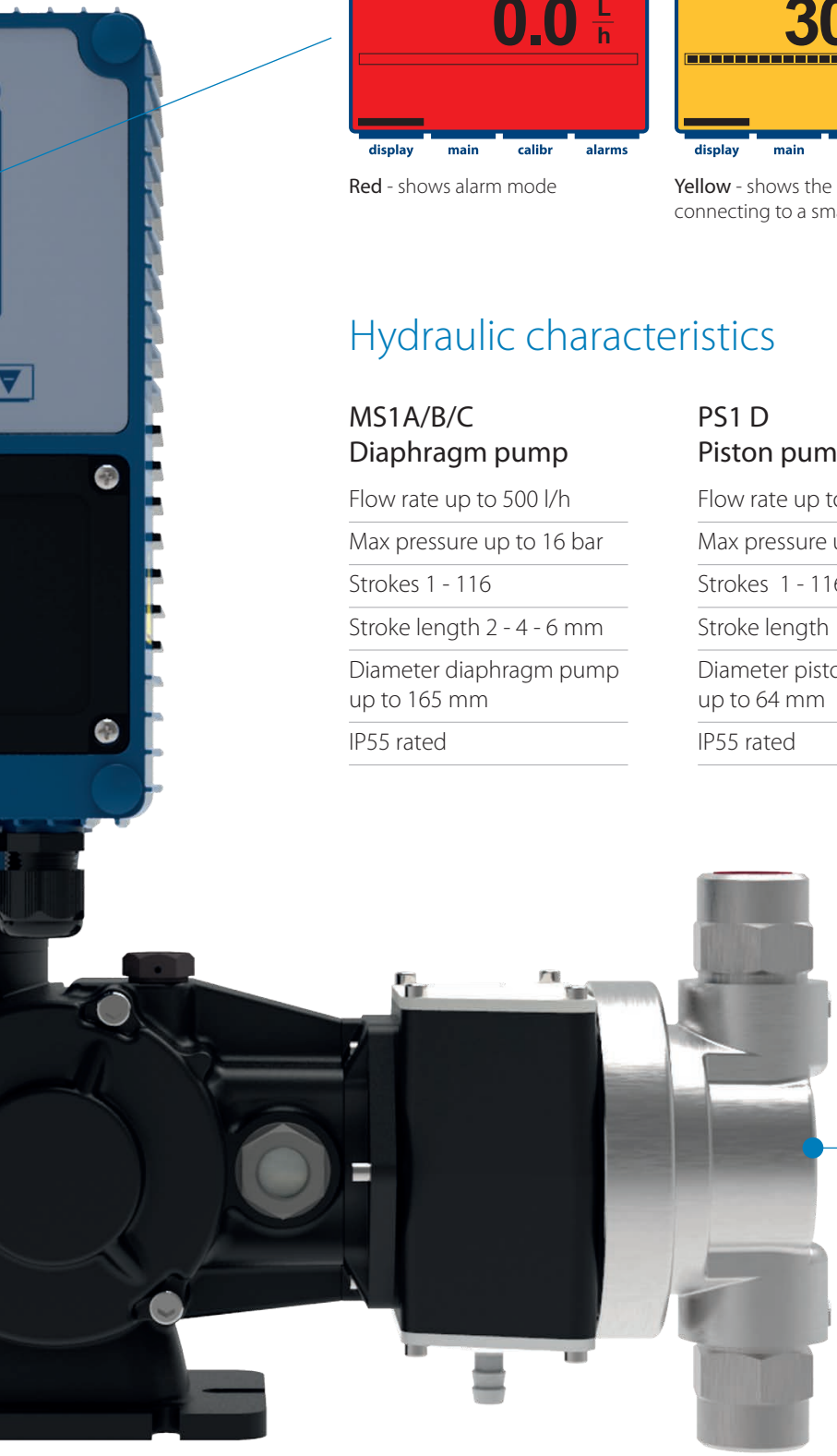
Yellow - shows the control unit is connecting to a smart device



Green - shows after the successful completion of a calibration process

Hydraulic characteristics

MS1A/B/C Diaphragm pump	PS1 D Piston pump	PS2 E Piston pump
Flow rate up to 500 l/h	Flow rate up to 304 l/h	Flow rate up to 1000 l/h
Max pressure up to 16 bar	Max pressure up to 10 bar	Max pressure up to 20 bar
Strokes 1 - 116	Strokes 1 - 116	Strokes 1 - 116
Stroke length 2 - 4 - 6 mm	Stroke length 15 mm	Stroke length 25 mm
Diameter diaphragm pump up to 165 mm	Diameter piston pump up to 64 mm	Diameter piston pump up to 89 mm
IP55 rated	IP55 rated	IP55 rated



Wide choice of materials

For the pump head SS – PVDF – PVC – PP

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**

SEKO reserves the right to amend and change specifications without prior notice. All pictures shown are for illustration purpose only. Actual product may vary due to product enhancement. Published data may be subject to change.

© 2018 SEKO, Layout and origin: Italy, 850001 ELEKT EN B01