

Kontrol 800 Panel

Controller panel pH, Chlorine, Redox, Temperature



innovation > technology > future

Kontrol 800 Panel

The Kontrol Panel 800 is a complete panel station with hydraulic part and Electronic controller instrument.

There are available eight (8) layout panel versions, as follows:

- 1) Kontrol 800 pH and Redox
- 2) Kontrol 800 pH and Free Chlorine (Amp)
- 3) Kontrol 800 pH, Free Chlorine (Amp), Redox
- 4) Kontrol 800 Free Chlorine (Amp)
- 5) Kontrol 800 Chlorine/ Chlorine Dioxide (Pot)
- 6) Kontrol 800 pH and Chlorine/ Chlorine Dioxide (Pot)
- 7) Kontrol 800 pH, Chlorine/ Chlorine Dioxide (Pot) and Redox
- 8) Kontrol 800 pH, Free Chlorine (Amp), Total Chlorine (Pot), Combined Chlorine and Redox (pictures)



The **Kontrol panel 800** is based on user friendly approach, can be selected and its maintenance can be done without technical knowledge.

The **Kontrol 800 Control Instrument** is a dedicated multi-parameter controller for complex applications that require a number of chemical parameters to be checked at the same time.

The **Transparent Hydraulic** PSS-Plexi probe holder with wall mounting installation has a Volumetric Flow-meter with a range from 10 to 100 litres/hour, with external reed sensor for proper flow rate between 70 and 90 litres/ hour. The tube connections are Inlet and Outlet 8x12 mm with clamping ring nut.

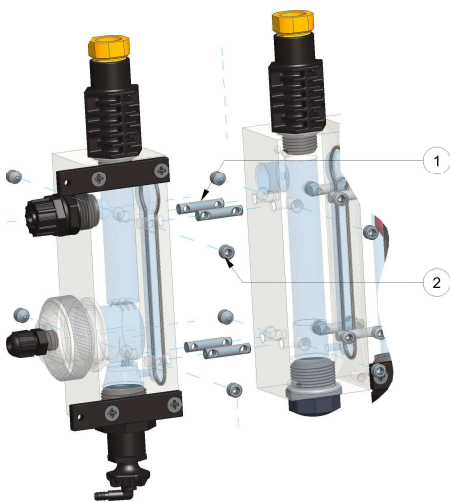
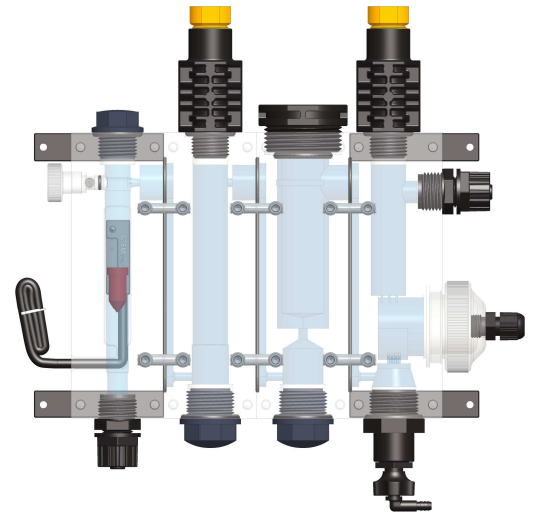
Features:

- Multi-parameter controller K800 100÷240 Vac 50/60 Hz.
- Probe Holder
 - o Pressure 5 bar
 - o Temperature 60 °C
- Panel size 700x420x10mm PVC material

Modular Probe Holder

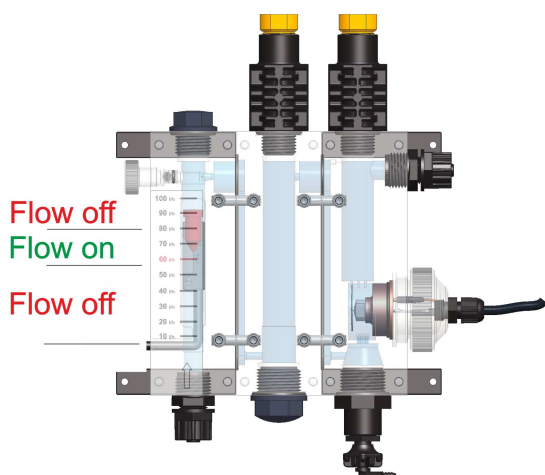
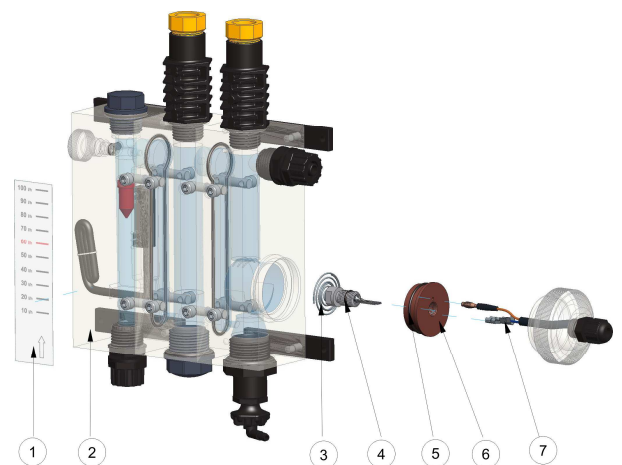
There are 10 (ten) available layouts, as follows:

Code **9900103047** PSS-PLEXI [FLUX / PH]
 Code **9900103048** PSS-PLEXI [FLUX / PH / RX]
 Code **9900103049** PSS-PLEXI [FLUX / CL-A]
 Code **9900103050** PSS-PLEXI [FLUX / PH / CL-A]
 Code **9900103051** PSS-PLEXI [FLUX / PH / RX / CL-A]
 Code **9900103052** PSS-PLEXI [FLUX / PH / CL-P]
 Code **9900103053** PSS-PLEXI [FLUX / CL-P]
 Code **9900103054** PSS-PLEXI [FLUX / PH / RX / CL-P]
 Code **9900103055** PSS-PLEXI [FLUX / PH / RX / CL-A / CL-P]
 Code **9900103056** PSS-PLEXI [FLUX / CL-P / CL-P]



The principle of **patented** modularity consists in elements assembled with metallic tie rods and metal screws.

The Probe Holder is based on user friendly approach, can be selected and its maintenance can be done without technical knowledge.



Feedback Flow rate value thanks to magnetic red float with external reed sensor for proper flow rate between 70 and 90 liters/ hour.

Multi-parameter control instrument

The Kontrol 800 is a dedicated multi-parameter controller for complex applications that require a number of chemical parameters to be checked at the same time. The unit features independent proportional control output measures, two programmable frequency outputs, RS485 serial port with MODBUS protocol, three relay outputs, probe quality checking and Data logging capability.



Features

Graphic display and Keypad

- Simultaneous value of the measure, Temperature and Relay status.
- 4-line, 20-character Alphanumeric Display.
- Seven control keys for instrument calibration and configuration.

Enclosure Box and Power Supply

- Wall mounting PP plastic material IP65 Box
- Universal Power Supply 100÷240 Vac 50/60 Hz

Manual controls

The user-friendly programming step menu makes starting up and checking the control and dosing system easily.

Data logging

Internal Flash memory to load record measures values. Type: Circular (F.I.F.O.) or Filling.

RS485 Serial port

For set-up and real-time data acquisition from remote or for stored data download on PC or laptop (Communication software **SekoNet** required). MODBUS RTU communication protocol.

Measure Input

High measuring resolution with probe quality control. Chlorine measure in normal or sea water applications with pH mathematic rule compensation.

Digital Input

Double channel Voltage Input and Reed level Input to disable all function controller output.

Current outputs 4÷20mA Galvanic insulation

Two (2) programmable Output proportional Measures.

Frequency Outputs

- 1÷120 Pulse/Minutes open collector Insulation channel.
- Two (2) programmable Output Measures.

Relay Outputs

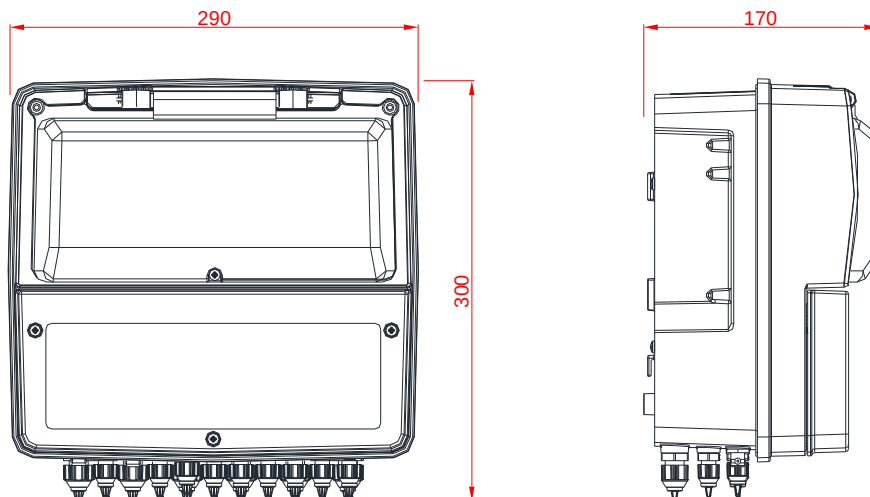
Three (3) independent relays dedicated for three Set point Measures with power contact, with On/OFF, Timed, Proportional routine function setting.

One Alarm remote dry contact – One Set point Measure dry contact.

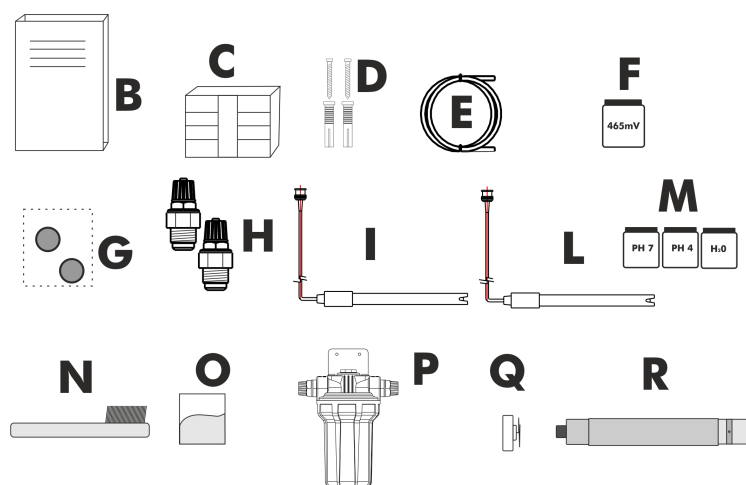
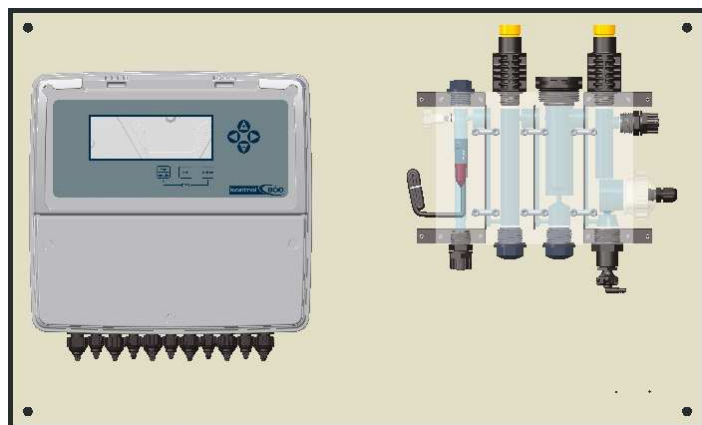
Measure range

Type	Description
pH	0÷14,00 pH
ORP	± 1500 mV
Conductivity	1÷200/10÷2000/100÷20.000 µS
Chlorine	0÷5,00 ppm(*) (Amperometric Cell)
Chlorine and Chlo. Dioxide	0÷0,50 /1,00 /2,00 /5,00 /10,0 /20,0 /200,0 ppm (Potentiostatic Cell)
Temperature	with PT100/PT1000 0÷100°C (32÷212 °F)

Mechanical Dimensions:



Package Carton Box:



Letter	Item	PR800 pH-Redox KPS01PM00000	PC800 pH- Free CL(AMP) KPS02PM00000	PRC800 pH- Free CL(AMP)Rx KPS03PM00000	CL800 Free CL (AMP) KPS04PM00000	PC800/ POT pH-CL (POT) KPS06PM00000	PRC800 / POT pH-CL (POT)-Redox KPS07PM00000	CL800 / POT CL (POT) KPS05PM00000	PRC800 / POT pH-Free, Total, Comb. CL-Rx- KPS08PM00000
A	Panel	•	•	•	•	•	•	•	•
B	Manual	•	•	•	•	•	•	•	•
C	DPD Chlorine Kit		•	•	•	•	•	•	•
D	Metal anchors	•	•	•	•	•	•	•	•
E	Hose 8x12 mm	•	•	•	•	•	•	•	•
F	Redox Buffer	•		•			•		•
G	Circular caps	•	•	•	•	•	•	•	•
H	Pipe holder 8x12	•	•	•	•	•	•	•	•
I	pH probe	•	•	•		•	•		•
L	Redox probe	•		•			•		•
M	pH buffer	•	•	•		•	•		•
N	Brush		•	•	•				•
O	Glass bead kit		•	•	•				•
P	Filter	•	•	•	•	•	•	•	•
Q	Amperometric Chlorine probe		•	•	•				•
R	Potentiostatic Chlorine probe					• (*)	• (*)	• (*)	• (*)

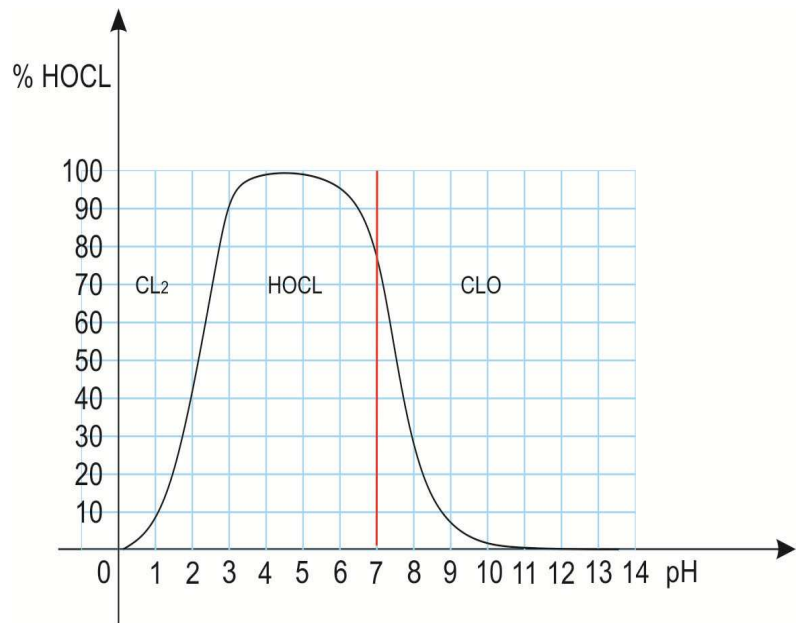
(* Potentiostatic probe is not included)

Chlorine amperometric Cell

For the disinfection of any type of water, preference is given to chlorine gas or chlorine compounds. The germicidal effect is due to the formation of Hypochlorous acid (HClO) if chlorine is dissolved in water.

The formation of Hypochlorous acid, however, depends strongly on the pH value which is shown in the dissociation diagram below.

Consequently, a constant pH value of the water to be analyzed is desired (preferably pH 7.00 or less). Otherwise the same chlorine concentration would cause different indications.



The free chlorine sensor works according to the principle of depolarization of a galvanic element. The sensor contains a platinum and a copper electrode. With the sample water acting as the electrolyte, galvanic potential develops between the two electrodes, depending on the electrode material. With non-flowing water the electrodes would polarize and interrupt the current flow.



The constant flow causes small glass balls inside the sensor to circulate and remove any passivation layer from the electrodes. With these stable conditions, the sensor current increases proportionally to the free chlorine surplus.

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seko has been a significant manufacturer of metering pumps and dosing systems for over 40 years. This long activity allowed **seko** to acquire a vast experience in diversified applications and to confirm its international success in many industrial fields through the supply of reliable solutions for the dosing, injection and transfer of liquids.

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