

Control and Measuring Instruments





Kontrol **500-502** Single and twin-parameter control instruments

The Kontrol 500-series are advanced controllers designed for high-end applications. The units feature independent proportional PID-enabled control outputs, RS 485 serial port with MODBUS protocol, USB port on request, probe quality checking, a variety of outputs and full data logging capability. The user has full programming authority.

Kontrol 500-502

Parameters

- pH / ORP
- Conductivity
- Dissolved Oxygen
- Chlorine
- Chlorine Dioxide
- Hydrogen Peroxide
- Ozone
- Peracetic Acid
- Turbidity
- Suspended solids

Applications

- Waste Water
- Drinking Water
- Cooling Towers
- Boiler
- Legionella disinfection
- Reverse Osmosis
- Sludge
- Crate Wash
- Galvanic Process
- Dioxide Station
- CIP
- Irrigation
- Swimming Pool
- Fish Farming
- Sea water
- Dairy

Features

Graphic display and Keypad

128 by 64 pixel resolution monochrome display with graphic icons to show digital output status, Data logging, washing cycle, alarms. Simultaneous flashing values for the measurement (numeric + bargraph) and temperature readings. Analogue scrolling output values. Five control keys for instrument calibration and configuration.

Enclosure Box and Power Supply

Wall mounting ABS plastic material IP65 (144x144)
 Panel mounting IP54 (96x96)
 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 easy.

Data logging

Internal Flash Memory with records interval from 1 to 99 min. (near to 16000 records)

Visualization key for stored data in tabular and graphic form.

Type: Circular (F.I.F.O.) or Filling.

RS485 Serial port

To set-up and to acquire/capture real time data or to download stored data on PC or laptop (Communication Software Master Controller NET required).

MODBUS RTU communication protocol

USB port

To download recorded data on removable memory Usb Pen Drive (upon request).

Measure Input

High measuring resolution with probe quality control.

Modular measuring system

Chlorine measure for sea water application.

Digital Input

Dedicated to disable all controller output functions.

Current outputs

4÷20mA Galvanic isolation

Two independent programmable Output Measures with PID routine regulation.

Relay Outputs

Four independent relays, two set points, one alarm remote output, on backwashing probe output.

On/OFF, Timed routine function setting.

Measure range

Code	Description
pH	0 ÷ 14,00 pH
ORP	± 1500 mV
Conductivity	0 ÷ 20 /200 /2.000 /20.000 /200.000 µS
Inductive Conductivity	0 ÷ 10.000 /10.000 /100.000 /999.999 µS
Dissolved Oxygen	0 ÷ 20,0 ppm or mg/l - 0 ÷ 200% SAT
Chlorine and Chlo. Dioxide	0 ÷ 0,50/1,00 /2,00 /5,00 /10,0 /20,0 /200,0 ppm
Hydrogen Peroxide	0 ÷ 500 /1000 /2000 /10.000 /100.000 ppm
Ozone (O3)	0 ÷ 0,5 /2,00 /5,00 /10,00 ppm
Peracetic Acid	0 ÷ 500 /2000 /10.000 /20.000 ppm
Turbidity	0,00 ÷ 1,00 /10,0 /100 NTU/FTU
Suspended Solids Turbidity	0,0 ÷ 4,00 /40,0 /400 /4.000 NTU/FTU - 0 ÷ 30 gr/l
Temperature	with PT100/PT1000 0 ÷ 100°C (32 ÷ 212 °F)

Product line Kontrol 500 Single parameter

Code	Model	Description
K500PR	Kontrol PR 500	for pH or ORP values
K500CD	Kontrol CD 500	for Conductivity values
K500ID	Kontrol ID 500	for Inductive Conductivity values
K500OX	Kontrol OX 500	for Dissolved Oxygen values
K500CL	Kontrol CL 500	for Chlorine values
K500T1	Kontrol TB 500	for Turbidity values
K500T2	Kontrol TS 500	for Suspended Solid Turbidity values

The unit's Software enables the following measures:
H₂O₂ O₃ ClO₂ C₂H₄O₃

Product line Kontrol 502 Double parameters

K502PR	Kontrol PR-PR 502	for pH/ORP - pH/ORP values
K502PD	Kontrol PR-CD 502	for pH/ORP - Conductivity values
K502PO	Kontrol PR-OX 502	for pH/ORP - Dissolved Oxyge values
K502PC	Kontrol PR-CL 502	for pH/ORP - Chlorine values
K502CC	Kontrol CD-CL 502	for Conductivity - Chlorine values
K502TO	Kontrol TB-OX 502	for Turbidity - Dissolved Oxygen values
K502TX	Kontrol TS-OX 502	for Suspended Solids Turbidity - Dissolved Oxygen values
K502PI	Kontrol PR-ID 502	for pH/ORP - Inductive Conductivity values

AKRO SRL - BRASOV

Str. Zizinului, Nr. 110, Etaj 2, Cod Postal 500407 – BRASOV – ROMANIA

Tel/Fax: 0268-413180; Fax: 0268-413183; Mobil: 0721-203955; www.akro.ro E-mail: office@akro.ro

Cod Fiscal RO-14205979; Reg. Com. J 08/977/01.10.2001