



### **KONTROL 500**

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.

### **TECHNICAL CHARACTERISTICS**

#### **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

#### **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**

For set-up and real-time dataacquisition from remote or for stored data download on PC or laptop (Communication **Software Master** Controller **NET** required).

MODBUS RTU communication protocol

#### **USB port**

Download measuring data on removable memory Usb Pen Drive (upon request).

#### **Measure Input**

High measuring resolution with probe quality control. A modular measuring system Chlorine measure in sea water application.

#### **Current outputs 4÷20mA Galvanic isolation**

Two independent programmable Output Measures with PID routine regulation

#### **Relay Outputs**

Four independent functions, two set points, one alarm remote output, on backwashing probe output. On/OFF, Timed routine function setting.

#### **Digital Input**

Dedicated and level input to disable all controller output functions

### **APPLICATIONS**

- Waste water
- Legionella disinfection
- Dairy
- CIP
- Fish farming
- Drinking water
- Cooling towers
- Boilers
- Reverse osmosis
- Galvanic process
- Irrigation

### PRODUCTS KEY

<b>1</b>	<b>PRODUCT TYPE</b>								
<b>K</b>	Kontrol								
<b>2/3/4</b>	<b>INSTRUMENT TYPE</b>								
<b>500</b>	Kontrol 500								
<b>5/6</b>	<b>MEASURE</b>								
<b>CD</b>	Conductivity								
<b>OX</b>	Dissolved oxygen								
<b>T1</b>	Turbidity								
<b>T2</b>	Turbidity SS								
<b>CL</b>	Potentiostatic Chlorine								
<b>ID</b>	Inductive conductivity								
<b>PR</b>	pH/Orp and pH/Orp								
<b>7</b>	<b>MOUNTING</b>								
<b>P</b>	box type 96X96								
<b>W</b>	box type 144X144 (IP65)								
<b>8</b>	<b>POWER SUPPLY</b>								
<b>A</b>	230 Vac								
<b>B</b>	24 Vac								
<b>C</b>	115 Vac								
<b>M</b>	Switching 80÷265 Vac								
<b>9</b>	<b>FREE/CUSTOM</b>								
<b>10</b>	<b>FREE/CUSTOM</b>								
<b>11</b>	<b>FREE/CUSTOM</b>								
<b>12</b>	<b>FREE/CUSTOM</b>								
<b>K</b>	<b>500</b>	<b>CD</b>	<b>W</b>	<b>A</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

### PRODUCT LINE

	pH/ORP	conductivity	Ind. conductivity	Dissolved oxygen	Chlorine potentiostatic cell	Turbidity	SS turbidity	H2O2	C2H4O3	O3
K500PR	•									
K500CD		•								
K500ID			•							
K500OX				•						
K500CL					•			•	•	•
K500T1						•				
K500T2							•			

### MEASURE RANGE

<b>pH</b>	0÷14,00
<b>ORP</b>	±1500mV
<b>conductivity</b>	0÷20/200/2000/20000/200000µS
<b>Inductive conductivity</b>	0÷10.000/10.000/100.000/999.999µS
<b>Dissolved oxygen</b>	0÷20,0 ppm or mg/l 0÷200% SAT
<b>Chlorine</b>	0÷0,50/1,00/2,00/5,00/10,0/20,0/200,0ppm
<b>Turbidity</b>	0,00÷1,00/10,0/100NTU/FTU
<b>suspended solid turbidity</b>	0,0÷4,00/40,0/400/4.000 NTU/FTU - 0÷30 gr/l
<b>Hydrogen peroxide (H2O2)</b>	0÷500/1000/2000/10.000/100.000 ppm
<b>Peracetic Acid (C2H4O3)</b>	0÷500/2000/10.000/20.000 ppm
<b>Ozone (O3)</b>	0÷0,5/2,00/5,00/10,00 ppm
<b>temperature compensation</b>	with PT100/PT/1000 0÷100 (32÷212 °F)

### DIMENSIONS

