K 100 CL2 M

Complete analyzer package for the determination of free or total chlorine, chlorine dioxide, ozone and peroxide in water

Kuntze Instruments
Instrumentation for Water and Waste Water Analysis
3316 Leechburg Road
Lower Burrell, PA 15068
Tel: 724-339-8510
kuntze01@comcast.net
www.kuntze-instr.com

Description

Microprocessor-controlled chlorine analyzer with integrated controller for water analysis applications. A constant continuous flow of water is applied to the measuring cell. A current flow between the electrodes is proportional to the concentration. The K100 amplifies this signal and recalculates the measured value to the calibration and temperature settings. This recalculated value is indicated in mg/l (ppm) on the LCD display. This result can also be used via an analog output 0/4-20mA for recording or controlling purposes.

Main applications

- Waste water treatment
- Water purification
- Chlorination/dechlorination
- Swimming Pools
- Cooling tower – air scrubber
- Food and beverage industry

Features

- The whole system is mounted on a PVC board with flow regulator, flow through electrode holder and electrode
- Two-line alphanumerical LCD display for measured values and customer programmed data
- Easy user-guided operation with only five keys
- Password function preventing unauthorized access
- Integrated potentiostat
- Temperature compensation either manually or via Pt-100
- 1-point calibration
- Galvanically isolated inputs and outputs
- Integrated controller with 2 set points
- Additional temperature display (0 - 50 ^{o}C)

Controller

- On/off-controller with adjustable hysteresis
- Proportional controller (pulse-pause or pulse-frequency controller)
- Indication of set point relay status in the display
- Analogue output for continuous control or as recording output
- Manual operation of set points
- Adjustable ‘power on’ delay
- Controller stop via external contact

Option

- Serial interface RS-485

Version: 03/2000
Subject to alterations

K 100 CL2 M

Complete analyzer package for the determination of free or total chlorine, chlorine dioxide, ozone and peroxide in water

Kuntze Instruments
Instrumentation for Water and Waste Water Analysis
3316 Leechburg Road
Lower Burrell, PA 15068
Tel: 724-339-8510
kuntze01@comcast.net
www.kuntze-instr.com

Technical data

Power:	24 or 130 or 230 VAC, + 6 %, - 10 %, 40 ... 60 Hz
Power consumption:	10 VA
Ambient temperature:	operation 0 - 50 °C storage - 20 - 65 °C
Humidity, % rF: (non-condensing)	max. 90 % at 40 ° C
Package:	The whole system is mounted on a PVC board. Measurements 305x230x90mm (12”x9”x3.5”) protection class IP-65 (NEMA 4 X)
Sample rate:	56 l/h (14.8 gal)
Measuring range:	0 – 5.00 ppm
Weight: 2.25	kg
Connectors: spring-loaded	terminals
Measuring range:	0.5 – 5.0 mg/l
Accuracy: +/-	0.1 mg/l
Analogue output:	0/4 - 20 mA, galvanically isolated
Registration range:	adjustable within measuring range
Load: max.	400 Ohm
Interface (optional):	RS 485
Electromagn. compatibility:	according to DIN EN 50081-1 and 50081-2
In compliance with:	CE

Controller

to control solenoid valves or feeding pumps, 2 set points

Power on delay:	0-200 seconds (adjustable) before the controller is active
Control functions:	on/off-controller with adjustable hysteresis Proportional controller (pulse-pause or pulse-frequency controller) 0/4 – 20 ma for continuous control
Manual operation:	manual operation of set points possible
Relay output:	2 relay outputs for SP 1, SP 2, each with 1 NO/NC contact (SPDT) max. 250 V, 6 A, 550 VA; indication of set point relay status in the display
Digital input	external contact hold (controller stop)

Order numbers:

K-100 CL2 with wall-mounting enclosure, with integrated controller (free chlorine) 8400005
(total chlorine) 8500005

Option: Serial interface RS-485 7611453

If supply voltage differs from 130 V, please indicate.

Version: 03/2000
Subject to alterations