

# Krypton K CL2

## Measuring and control system for free chlorine

- Low maintenance by automatic sensor cleaning
- Pressure-proof up to 6 bar at 20°C
- Higher safety by integrated flow monitoring



### applications



Drinking Water / Beverages



Food Industry



Disinfection



Cooling And Boiler Feed Water

### description

Ready for use and tested en bloc system to measure and control of Free Chlorine.



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## Measuring and control system for free chlorine

### particular characteristics

- Inclusive instrument, single rod sensor, PMMA flow assembly (with sampling point, stop cocks for inlet and outlet, flow monitoring and temperature sensor), automatic sensor cleaning ASR and all necessary cables
- Plain text menu guidance
- Password function
- 2 limit values with delay, assigned to alarm relay
- 2 separate PI-controllers
- Dosage check
- Background illuminated two-line LC-Display for measured value and temperature
- Serial interface RS 485
- Scaleable, galvanically isolated 0/4 .. 20 mA output
- Display of relay status and error messages
- Invertible alarm output, permanent or pulse contact

### information

The measuring system Krypton K is also available in 117 VAC and 24 VAC - without additional charge



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### technical data

#### measuring parameter

free Chlorine 0.00 .. 4.00 mg/l Cl<sub>2</sub>

#### input characteristics

temperature measuring range -30 .. +140°C  
flow monitoring Flow monitor with integrated Pt 100  
conditions  
max. pressure 6 bar (at 20°)  
flow ~ 30 .. 200 L/h  
ambient temperature 0 .. 50 °C  
pH-range 6 .. 8 pH  
min. conductivity 200 µS/cm

#### output characteristics

output signal 0/4 .. 20 mA (scaleable, galvanically isolated)  
load max. 500 Ohm  
registration range adjustable within measuring range  
serial interface RS 485  
baud rate 9600  
data format 8 bit

#### power supply

line voltage 24 / 117 / 230 VAC, +6 / -10 %, 40 .. 60 Hz  
power consumption 10 VA

#### ambient conditions

ambient temperature operation 0 .. +50°C, storage -20 .. +65°C  
exception sensors 0 .. 30°C  
relative humidity max. 90% rH at 40°C (non-condensing)  
protection class  
wall mounted housing IP 65

#### controller

control response on/off controller (adjustable hysteresis)  
P/PI controller (pulse-pause, pulse-frequency or continuous output)  
relays 2 relays each with potential-free NO contact, max. 250 V, 6 A, 550 VA  
1 alarmrelay each with potential-free NO/CO contact, max. 250 V, 6 A, 550 VA  
onset delay 0 .. 200 sec until controller active  
digital input controller stop via external contact

#### certificates and approvals

CE-symbol Declaration of conformity: The product meets the requirements of the harmonized European standards. It thus complies with the legal requirements of the EC directives.  
The manufacturer confirms successful testing of the product by affixing the CE symbol.



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## Measuring and control system for free chlorine

### mechanical construction

material

board: PVC, assembly: PMMA, cocks: PP/PVC

dimensions

instruments: ABS, sensors: glass

sampling point

700 x 395 mm

water coupling

1/4" female threat with stop cock

inlet/ outlet: 1/2" female threat (with stop cock)

tube connection DN 6/8

### **accessories**

#### sensors

AuAu-600-OO-2-1-PG

AuAu-600-OO-2-1-PG is a single rod sensor with integrated counter electrode. This potentiostatic double gold sensor is suitable for measuring free Chlorine, Chlorine Dioxide and Ozone.

#### accessories

CHECKIT Comparator

The CHECKIT Comparator is a compact handy colorimeter unit which is suitable for both mobile and static analysis work. CHECKIT Comparator is a colorimetric rapid test for easy determination of Free Chlorine, Total Chlorine, Chlorine Dioxide or Ozone concentrations that can be used as an indication measurement for our amperometric measuring systems. Naturally, regarding resolution and accuracy, the rapid test does not come close to the Krypton systems, and it cannot replace a photometric measurement. However, it provides a quick orientation and can therefore prove helpful during installation or routine comparison. The CHECKIT Comparator comes in a robust plastic casing with all necessary equipment.

PKV 30-DPS

Converter for PROFIBUS-DP for max. 32 instruments of the K 100 oder dialog series. Converting of RS 485 to PROFIBUS-DP interface, instrument in a housing for installation on a top hat rail, dimension 105 X 105 x 80 mm (HxBxT), connection cable inclusive

S-341 data logger

The bus data logger S-341 on the base of the RS-485 with Kuntze protocol reads, shows, and stores measuring data of up to 10 Kuntze instruments with up to 8 parameters each.

