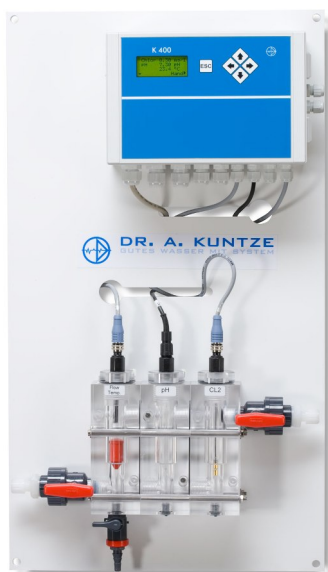


Krypton K Multi

Online measuring and control system for free Chlorine, pH-value and Temperature - optionally with ORP measurement

- Low maintenance by automatic sensor cleaning ASR
(www.automatische-sondenreinigung.de)
- Particularly suitable at unsteady pH-values through pH compensation
- Higher safety by integrated flow monitoring



applications



Disinfection



Drinking Water / Beverages



Cooling And Boiler Feed Water

description

Ready to use and tested en bloc measuring system for automatic measuring and controlling of free Chlorine, pH-value, and temperature. An ORP measurement can be added - as an option. Chlorine concentration and pH-value can be controlled by separate PI-controllers.

components

Scope of supply is: measuring and control instrument K 400, free Chlorine sensor, pH sensor, flow assembly GDM with Pt100 (with sampling point, stop cocks for in- and outlet, measuring water filter, flow monitoring and temperature sensor), automatic sensor cleaning ASR for free Chlorine and all necessary cables.



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particular characteristics

- 2 separate PI controllers for Chlorine and pH
- Priority pH controller
- 2 x 2 limit values with delay
- Dosage check for Chlorine and pH
- Semi-automatic two-point-calibration for pH
- Automatic pH compensation of the Chlorine measurement
- Automatic or manual Temperature compensation
- Background illuminated 4 line LC-Display
- Plain text menu guidance
- pass word function
- real time clock
- Log book function for the last 20 calibration data
- Broad range power supply 85 .. 265 V AC or DC
- Serial interface RS 485
- OPTION: 4 x 0/4 .. 20 mA outputs (scaleable, galvanically isolated)
- OPTION: additional ORP measurement



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measurement

technical data

measuring parameter

| | |
|---------------|-----------------------------|
| free Chlorine | 0 .. 4 mg/l 0 .. 20 mg/l |
| pH-value | 0 .. 14 pH |
| Temperature | 0 .. 50 °C |
| ORP | -1500 .. +1500 mV |

input characteristics

conditions

| | |
|---------------------|----------------------|
| max. pressure | max. 6 bar (at 20°C) |
| flow | ~30 .. 200 l/h |
| ambient temperature | 0 .. 50°C |
| pH-range | 6 .. 8 pH |
| min. conductivity | >200 µS/cm |

output characteristics

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

power supply

| | |
|-------------------|---|
| line voltage | broad range power supply 85 .. 265 V AC or DC |
| power consumption | 10 VA |

ambient conditions

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

controller

| | |
|------------------|---|
| control response | On/off controller (adjustable hysteresis) P/PI/PID-controller (pulse-pause, pulse-frequency, 3-point controller/ servo motor control (for free Chlorine) or continuous controller output) |
| relays | 3 x potential-free NO-contact, max. 250 V, 6 A, 550 VA for activation dosing pumps / Servo-motor 1 x potential-free CO-contact, max. 250 V, 6A, 550 VA for alarm |
| onset delay | 0 .. 2000 sec |
| digital input | 1) Low water 2) Level switch 3) Controller stop via external contact |



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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.

mechanical construction

material

board: PVC, assembly: PMMA, cocks: PP, PVC, instrument: ABS, sensors: glass

dimensions

700 x 395 mm

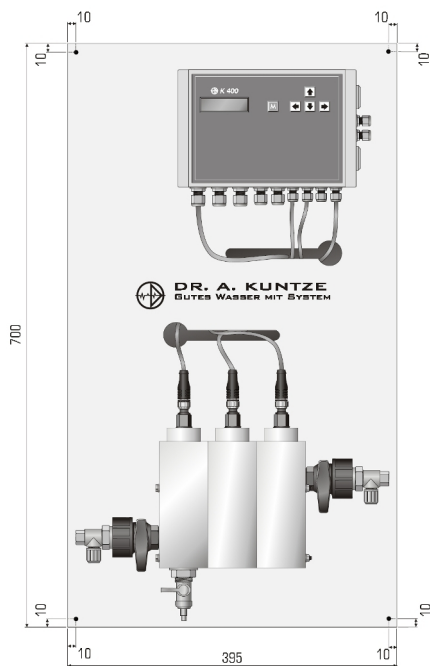
sampling point

Stop Cock R 1/4"

water coupling

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

tube connection DN 6/8



Krypton K Multi

Online measuring and control system for free Chlorine, pH-value and Temperature - optionally with ORP measurement

accessories

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.

plug-in card "4 x 0..20 mA" for measuring and control instruments K 400 - 2 spacer pins inclusive

plug-in card "4 x 0..20 mA" for measuring and control instruments K 400 - 2 spacer pins inclusive

The slope of pH sensors changes over the time (depending on the measuring media). We recommend a regular calibration with our buffer solutions. We offer 1000 ml packages of pH 2, pH 3,56, pH 4, pH 7, and pH 9,22, and 50 ml packages of pH 4, and pH 7.

