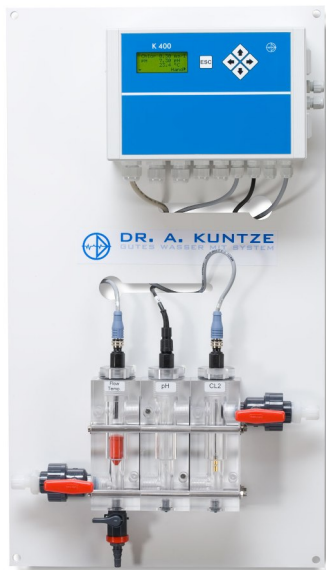


# Krypton K Multi

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](http://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.



# Krypton K Multi

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

## 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



# Krypton K Multi

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

## technical data

### measuring parameter

free Chlorine	0 .. 4 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), constant
flow	~30..200 l/h, constant
ambient temperature	0 .. 50°C
pH-range	6 .. 8 pH
min. conductivity	>150 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 exception sensors: 0 .. 30°C
relative humidity	max. 90% at 40°C non-condensed
protection class	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



# Krypton K Multi

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

## 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.

## mechanical construction

material

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

dimensions

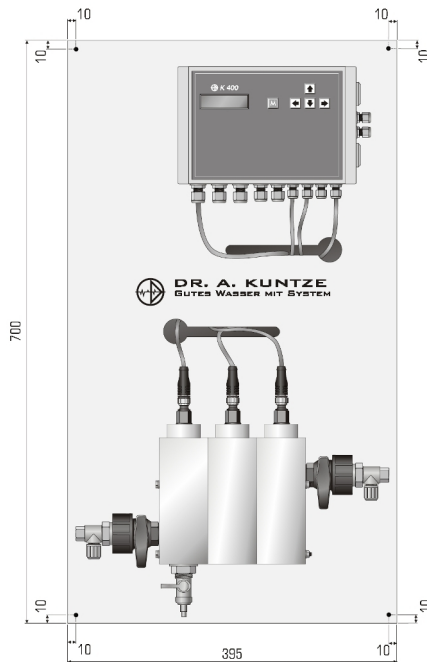
700 x 395 mm

sampling point

Stop Cock R 1/4"

water coupling

inlet/outlet: 1/2" (with stop cock)  
tube connection DN 6/8



## **order information**

name

description

article number

Krypton K Multi

Measuring system for Free Chlorine, pH-value and temperature

70005240K

GDM Redox/ORP add on

1 GDM chamber equipped with ORP sensor and cable

57001520K



# Krypton K Multi

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

## accessories

### sensors

Pt-55-W

The temperature sensor Pt 100 is a temperature probe which is based on the resistance change of platin at temperature influence.

### 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.

EC-CIRC 15-700

- spherical motor
- 230V/50Hz, 25 W
- circulation capacity: ca. 1m<sup>3</sup>/h
- pressure: max. 10 bar (at 20°C)
- temperature: max. 110 °C
- hydraulic connection: 1/2" internal screw thread

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

