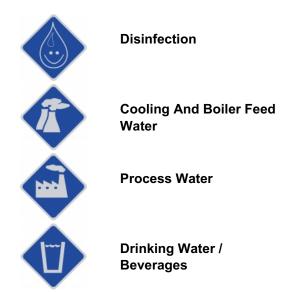
- · Easy and save operation by plain text menu guidance
- · Safety by password function



K 100 DES

Applications



Description

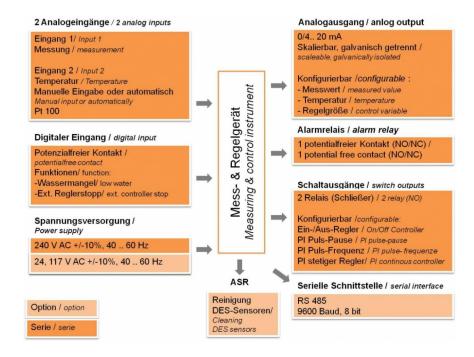
The K 100 (W) CL2 is a sophisticated single-channel instrument for measuring and control disinfectants like Chlorine, Chlorine dioxide, Ozone and Hydrogen Peroxide. Additionally temperature measurement of the measuring media is possible. The instrument is available in a panel mounted housing (K100) and in a wall mounted housing (K100 W).

Particular characteristics

- Two limit values with delay, assigned to alarm relay
- Two separate PI-controllers
- · Dosage check
- Automatic or manual pH-value compensation for pH
- Background illuminated two-line LC-Display for measured value and temperature
- Scaleable, glavanically isolated 0/4 .. 20 mA output
- Display of relay status and error messages
- Invertible alarm output, permanent or pulse contact
- OPTION: serial interface RS 485



Block diagram



Technical data

Measuring parameter

free Chlorine	0 4.00 mg/l
	0 20.00 mg/l
Chlorine Dioxide	0 4.00 mg/l
Ozone	0 4.00 mg/l
Hydrogen Peroxide	0 30.0 mg/l



Input characteristics

Temperature measuring range -35.. +140°C (display range)

Temperature coefficient Linear

Digital input One as controller stop by external contact

Ambient conditions Ph-range free Chlorine: pH 6.. 8, konstant

Chlorine dioxide, Ozone, Peroxide: pH

6.. 9 Total Chlorine: pH 4.. 12

Flow ~30.. 200 l/h

Min. conductivity >150 μ S/cm, with ASR > 200 μ S/cm

Temperature 0.. 50°C

Output charcteristics

Alarm relay 1 potential-free NO contact, max. 250 V, 6 A, 550 VA Output signal 1 x 0/4.. 20 mA (scaleable, galvanically isolated)

Load max. 500 Ohm

Registration range Free scaleable within the measuring

range

Serial interface RS 485

Baud rate 9600 Baud Data format 8 bit

Power supply

Line voltage 24 / 117 / 230 VAC, +6 / -10 %, 40.. 60 Hz

Power consumption 10 VA

Controller

Control response On/off controller (adjustable hysteresis) P/PI controller (pulse-pause,

pulse-frequency or continuous output)

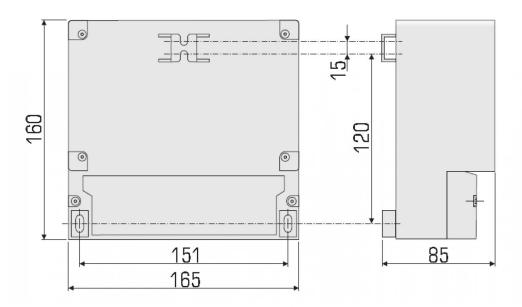
Relay 2 relays each with potential-free NO contact, max. 250 V, 6 A, 550 VA

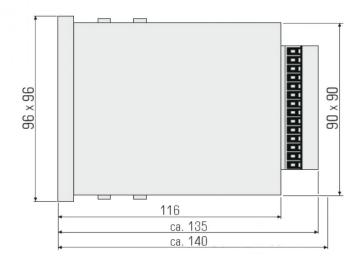
Start delay 0.. 200 sec until controller active

Controller stop digital input



Mechanical drawing





Storage version

Article number	Name	Description
100200K	K 100 Cl2	Free Chlorine, panel mounted, 230 V AC
100250K	K 100 CIO2	Chlorine dioxide, panel mounted, 230 V AC
100400K	K 100 O3	Ozone, panel mounted, 230 V AC
100450K	K 100 H2O2	Hydrogen Peroxide, panel mounted, 230 V AC
105200K	K 100 W Cl2	Free Chlorine, wall mounted, 230 V AC
105250K	K 100 W CIO2	Chlorine dioxide, wall mounted, 230 V AC
105400K	K 100 W O3	Ozone, Wall mounted, 230 V AC
105450K	K 100 W H2O2	Hydrogen Peroxide, wall mounted, 230 V AC

Accessories

accessories

Modul RS 485 daugtherboard "serial interface - RS 485" for measuring and control instruments K 400



Measuring point setup

