

Measurement and Control Instruments

(Free/Total Chlorine, Chlorine Dioxide, Ozone, PH/ORP Conductivity and Hydrogen Peroxide)



Measurement and Control for Free/Total Chlorine, Chlorine Dioxide, Ozone and Hydrogen Peroxide



Description

The series K100 is a high sophisticated single channel measurement and control instrument for disinfectants like Free/Total Chlorine, Chlorine Dioxide, Ozone and Hydrogen Peroxide.

Particular characteristics

- 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 optional
- Scalable, galvanically isolated 0/4 - 20 mA output
- Display of relay status and error messages

Chlorine sensor (open Amperometric sensor)

The free chlorine sensor works according to the principle of depolarization of a galvanic element. The sensor contains platinum and a copper electrode. With the sample water acting as the electrolyte, galvanic potential develops between the two electrodes, depending on the electrode material. With non-flowing water the electrodes would polarize and interrupt the current flow (hydrogen gas at the platinum electrode, oxide layer at the copper electrode). The constant flow causes small glass balls inside the sensor to circulate and remove any passivation layer from the electrodes. With these stable conditions, the sensor current increases proportionally to the free chlorine surplus.



AN ISO 9001:2008 COMPANY

Middle East Office

P.O Box 8872

Works Q3-085

SAIF Zone - Sharjah - U.A.E

Ph : +971 6 5529840

Fax : +971 6 5529841

E-Mail: info@waterengrs.com

Web: www.waterengrs.com

