Welcome to EPOQUE Rebuild under the Production Environment

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PN - CN203532219U U 20140409

PR - CN20132551600U 20130906

AP - CN20132551600U 20130906

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PA - NANJING INST TECHNOLOGY

TI - Intelligent **control** system of **chlorine dioxide generator** based on electromagnetic pump

AB - The utility model relates to an intelligent **control** system of a **chlorine dioxide generator** based on an electromagnetic pump. The intelligent **control** system is provided with a closed-loop **control** system composed of an upper computer, a PLC, an HMI, a solid-state relay, a salt liquid metering pump, an acid liquid metering pump, a residual **chlorine** sensor and a flow sensor. The upper computer and the HMI are communicated with the PLC, and conduct **remote** and on-site **real**-**time** monitoring and **control** over running parameters and states of the device. The PLC is used as the core controller, on one hand, the PLC interacts with the upper computer and the HMI, uploads running data and adjusts **control** parameters, and on the other hand, the PLC

adjusts the output frequency of the solid-state relay through intelligent **control** software. One end of the solid-state relay is connected with the PLC, the other end of the solid-state relay is connected with the salt liquid metering pump and the acid liquid metering pump of the **chlorine dioxide generator**, and the working frequency of the salt liquid metering pump and the working frequency of the acid liquid metering pump are controlled, so that the working frequency of the salt liquid metering pump and the working frequency of the acid liquid metering pump are changed according to the **control** value. Therefore, the adding amount of salt liquid and acid liquid is controlled, the output of **chlorine dioxide** in a reaction kettle is controlled, and it is guaranteed that the residual **chlorine** value in a water network reaches a set value.

PN - CN203455727U U 20140226

PR - CN20132551599U 20130906

AP - CN20132551599U 20130906

DT - I

PA - NANJING INST TECHNOLOGY

TI - Intelligence **control** system of **chlorine dioxide generation** device based on mechanical pump

AB - The utility model relates to an intelligence **control** system of a **chlorine dioxide generation** device based on a mechanical pump. The system is a closed-loop **control** system formed by a host computer, a PLC, a HMI, a frequency converter, a salt solution metering pump, an acid solution metering pump, a residual **chlorine** sensor, and a flow sensor. The host computer and the HMI communicate with the PLC, performing **remote** and on-site **real**-**time** monitoring and **control** on devices. The PLC is used as a core controller. On one hand, the PLC interacts with the host computer and the HMI, on the other hand, the PLC regulates output frequency of the frequency converter. An external signal **control** end of the frequency converter is connected with the PLC, and a power output

end is connected with the salt solution metering pump of the **chlorine dioxide generation** device and a driving motor of the acid solution metering pump. Through **control** output power frequency of the frequency converter, working frequency of the salt solution metering pump and the acid solution metering pump change according to **control** values, and dosage of salt solution and acid solution of the **chlorine dioxide generation** device is controlled, thereby controlling output amount of **chlorine dioxide** in a reaction still and ensuring a residual **chlorine** value in a water system reaches a preset value.

[SS 4]