摘 要

以两种液体的混合掌握为例，将两种液体按肯定比例混合，在电动机搅拌后要到达掌握要求才能将混合的液体输出容器，并形成循环状态。液体混合系统的掌握设计考虑到其动作的连续性以及各个被控设备动作之间的相互关联性，针对不同的工作状态，进行相应的动作掌握输出，从而实现液体混合系统从第一种液体参加到混合完成输出的这样一个周期掌握工作的程序实现。设计以液体混合掌握系统为中心，从掌握系统的硬件系统组成、软件选用到系统的设计过程〔包括设计方案、设计流程、设计要求、梯形图设计、外部连接通信等〕，旨在对其中的设计及制作过程做简洁的介绍和说明。设计采用西门子公司的 S7 系列的 PLC 去实现设计要求。

关键词：PLC，混合装置，自动掌握

Abstract

Mixture of two kinds of liquid filling control, for example, the two kinds of liquid by mixing, after mixing in the motor control requirements in order to achieve the mixed liquid output container, and form loop. Liquid Hybrid control system design taking into account the continuity of its movements and actions of various charged Shebei correlation between, for different working conditions, with corresponding motor control output in order to achieve liquid mixing system from a liquid by adding to the mix to complete the output of such a cycle control for program implementation. Liquid hybrid control system design for the center,From the control system hardware system, software used to the system design process (including design, design process, design requirements, ladder design, external connections and communications), seeks to design and manufacturing process which presents a brief introduction and Note. Design in siemens china″s s7 series of PLC to achieve the designdemands.

KEY WORDS：PLC，Hybrid devices，Automatic control