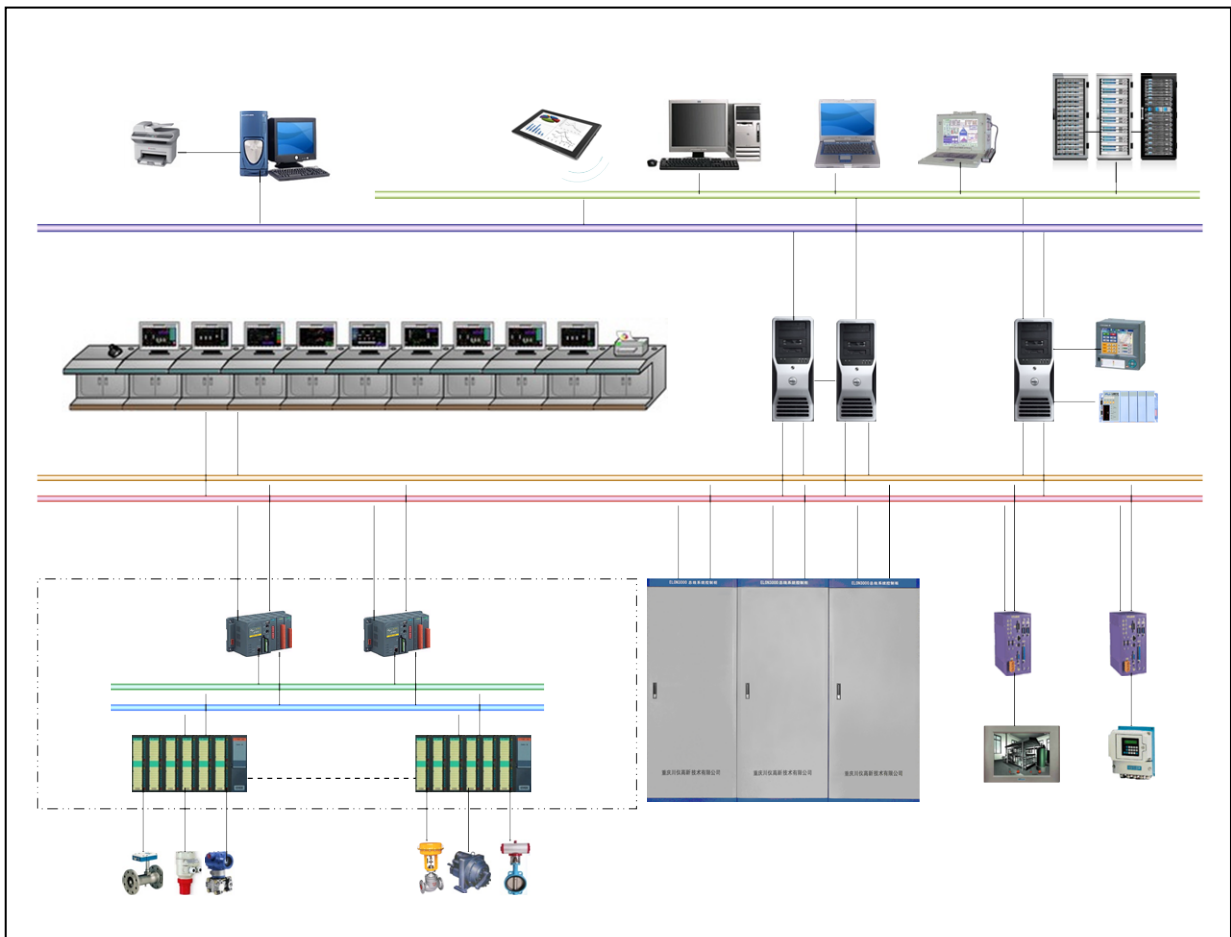# ELON-8000 自动化集成控制系统

　　ELON-8000 自动化集成控制系统是基于 CAN 通信协议由重庆川仪高新技术有限公司新研制开发，用于实时检测与控制的智能分布式现场总线测/控系统。它能满足各种生产过程的测/控要求，可对连续、批量或混合过程实现数据采集和包括调节、逻辑控制、顺序控制在内的各种测/控功能，可灵活地构成大、中、小型各类测/控系统以适应不同用户的需要。

　　ELON-8000 自动化集成控制系统通过组态软件和简单操作即可对系统进行组态、编程、调试和维护，并可对生产过程进行监视和操作，它能通过局域网系统实现生产过程的最优化控制和整个企业的综合信息管理。因此它是各行业进行各种数据采集及通讯、生产过程的自动化监控、综合信息管理的优选产品。

　　ELON-8000 自动化集成控制系统基本组成：由现场仪表及设备、8000 系列 I/O 测/控模块、智能控制器、TPC 嵌入式终端电脑、OES 控制站、系统数据站、系统操作站、系统工程师站、移动工作站、系统网络打印机、 TRACE MODE 系统组态/监控软件、I/O 总线、**系统控制网络**、**系统信息网络**、以太网络、网络通信媒体等所构成。

　　ELON-8000 自动化集成控制系统的基本功能：数据模块采集现场仪表输出的各种模拟信号、脉冲信号，经过转换和运算后，根据 CAN 通信协议把数据传输到 CAN 总线上；CAN 总线上的数据通过 CAN/RS 转换模块进入智能控制器中。智能控制器根据系统操作站下达的应用控制程序，对送入的测量数据进行分析、运算处理后，输出相应的控制信息。该控制信息通过 CAN/RS 转换模块传输到 CAN 总线上；挂在 CAN 总线上，对应的测/控模块接收到控制信息并加于处理后，将控制信号输出给现场控制仪表，从而实现生产工艺流程的实时监测和自动化控制。

ELON-8000 Automated integrated control system

ELON-8000 automated integrated control system based on CAN communication protocol from Chongqing Chuanyi High-tech Co., Ltd. they are developed lately for real-time detection and control in intelligent distributed Field Bus measurement and control system. It can meet the various requirements of measurement and control in production processes. It can achieve data collection in continuous, batch or mixed processes and realize a variety of measurement and control functions including regulation, logic control, sequential control. To meet the needs of different users various small , medium and large types of measurement and control system can be formed flexibly

The configuration, programming, debugging and maintenance of The ELON-8000 automation integrated control system should realized by configuring the software and simple operation. So the ELON-8000 can monitor and operate the production process. It can reach optimization of the production process and integrated information management of the entire enterprise through the LAN system. So it is the preferred products in various industry for data collection and communication, production process automation monitoring, integrated information management.

ELON-8000 automation integrated control system is constituted with such as 8000 series I /O measure and control modules, intelligent controller, TPC embedded terminal computer, OES control station, system data station, system operating station, system engineer station, mobile workstation, system network printer, TRACE MODE system configuration / monitoring software, I / O bus, system control network, system information network, Ethernet, network communication media and so on.

ELON-8000 automation integrated control system basic functions: data module collect various analog signals and pulse signals from field instrument output , after conversion and operation, according to the CAN communication protocol ,transfer data to the CAN bus; CAN bus data enters the intelligent controller through The CAN / RS conversion module. The intelligent controller analyzes the incoming data according to the application control program issued by the system operation station, and then outputs the corresponding control information. The control information is transmitted to the CAN bus through the CAN / RS conversion module; on the CAN bus, the corresponding measurement / control modules receives the control information and output the control signal to the field control instrument ,to realize the production process real-time monitoring and auto-control.

System Engineer Station Mobile supervisory terminal management station Mobile workstations Other stations Data server

Management information network

Enterprise information network

Central control system operating station

Other data sources

System data station (redundant)

System control network

(redundancy)

Control station n System Controller (redundant)

I / O bus

(redundancy)

I / O data monitoring and control module

Field transmitters and actuators

I / O data station Control station 1 Control station2

Communication conversion

Smart device Intelligent instrumentation