Process Solutions

Solution Note
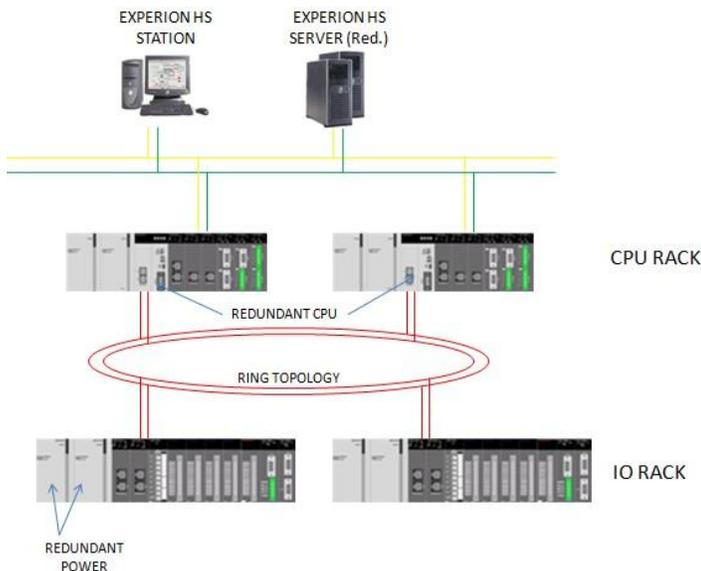
Increase System Reliability with MasterLogic PLC

Challenge

In today's industrial world, there is a need for robust and reliable systems to keep production facilities up and running. In critical operations, a single failure of the component during the operation could result in plant downtime, generating losses.

A reliable system will operate as intended and produce engineered results. Redundancy further increases the reliability of the control system by ensuring no single point of failure and thus reducing risk of lost production.

Honeywell Solution

Honeywell's MasterLogic ML200 PLC provides increased reliability with fully redundant technology, not only to the HMI but also within the controller architecture.

MasterLogic ML200 offers CPU, power, network, and I/O bus redundancy to avoid single point of failure across the system. It is a hot standby system with fast switchover time from Master to Standby system to minimize downtime of the system when there is a fault identified.

The system also provides dual ring topology on an I/O bus architecture for increased reliability of the communication network.

MasterLogic ML200 is connected to Experion servers through a dual Ethernet network to avoid loss of control and monitoring of data from the control station.

Other MasterLogic Features

In addition to its compact size, Honeywell's MasterLogic ML200 PLC offers a broad range of other features that bring power and robustness to very high-speed logic, interlock and sequencing applications. These include:

- Powerful CPU (high processing speed, IEC61131-3 standard language).
- Flexibility of network options (Fast Ethernet, Modbus, DeviceNet, Profibus DP).
- Variety of I/O modules including channel-to-channel isolation.
- Interface option to communicate with third-party devices using user-defined protocol.
- Robust diagnostics (system/error logs, system monitoring, network monitoring, ping test, frame monitor).
- Integrated programming and engineering environment with SoftMaster.
- Tight integration with Experion HS via dedicated protocol.

MasterLogic can be deployed in a stand-alone mode without requiring any human-machine interface (HMI) and is easily integrated with Honeywell's Experion® Process Knowledge System (PKS) architecture, including the Experion HS and Experion LS solutions.

Honeywell Advantage

MasterLogic offers reliable hot-standby system with one of the fastest switchover times in the market.

It Matters. Learn how Honeywell solutions help solve what matters.

For More Information

To learn more about Honeywell's MasterLogic PLC, visit our website www.honeywellprocess.com or contact your Honeywell distributor.

Honeywell Process Solutions

Honeywell
1250 West Sam Houston Parkway South
Houston, TX 77042

Honeywell Control Systems Ltd
Honeywell House Skimped Hill Lane Bracknell
RG12 1EB

Shanghai City Centre, 100 Junyi Road
Shanghai, China 20051

www.honeywellprocess.com

Honeywell