

DISTRIBUTED CONTROL SYSTEMS (DCS)

Introduction: A distributed control system (DCS) is a computerized control system for a process or plant, in which autonomous controllers are distributed throughout the system, but there is central operator supervisory control. This is in contrast to non-distributed control systems that use centralized controllers; either discrete controller located at a central control room or within a central computer. The DCS concept increases reliability and reduces installation costs by localizing control functions near the process plant, but enables monitoring and supervisory control of the process remotely.

We deal with the following Honeywell systems

DCS: C300

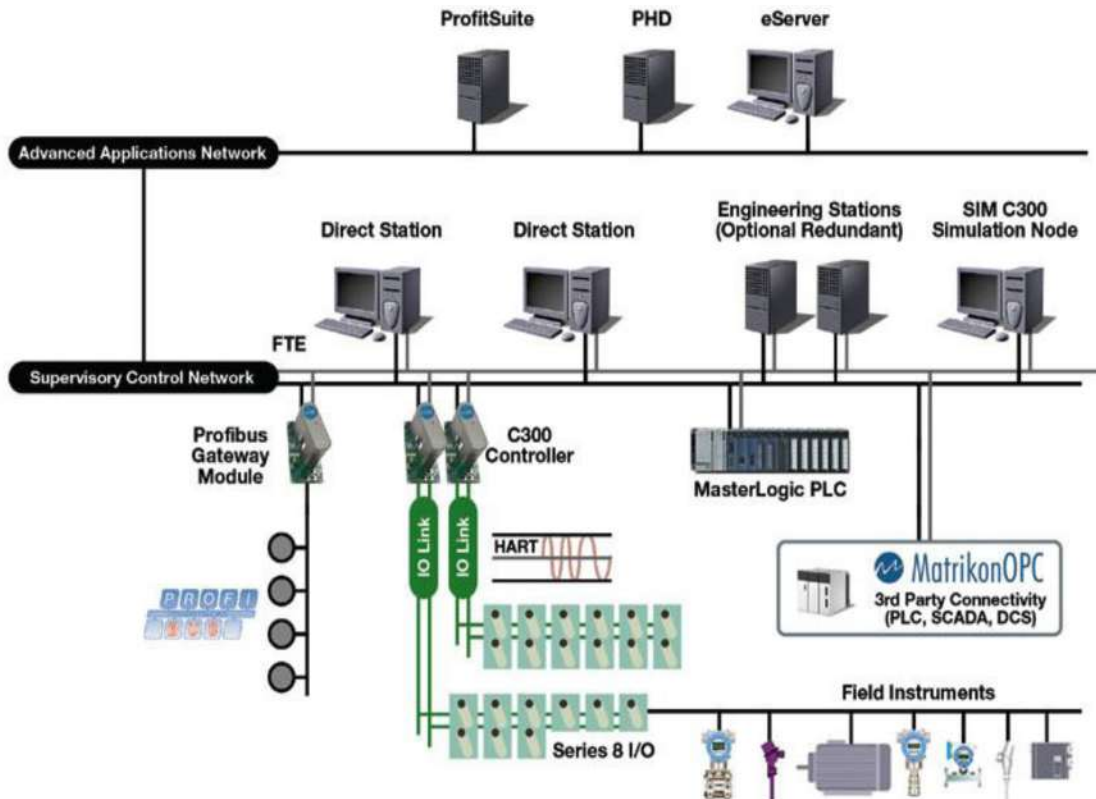
DCS: C200

DCS: C200E

HYBRID PLC:
HC900 SERIES

ML SERIES

DCS C300 GENERAL ARCHITECTURE



Typical Applications of DCS:

- ✦ Chemical plants
- ✦ Petrochemical (oil) and refineries
- ✦ Pulp and Paper Mills
- ✦ Boiler controls and power plant systems
- ✦ Nuclear power plants
- ✦ Environmental control systems
- ✦ Water management systems
- ✦ Water treatment plants
- ✦ Sewage treatment plants
- ✦ Food and food processing
- ✦ Agro chemical and fertilizer
- ✦ Metal and mines
- ✦ Automobile manufacturing
- ✦ Metallurgical process plants
- ✦ Pharmaceutical manufacturing
- ✦ Sugar refining plants

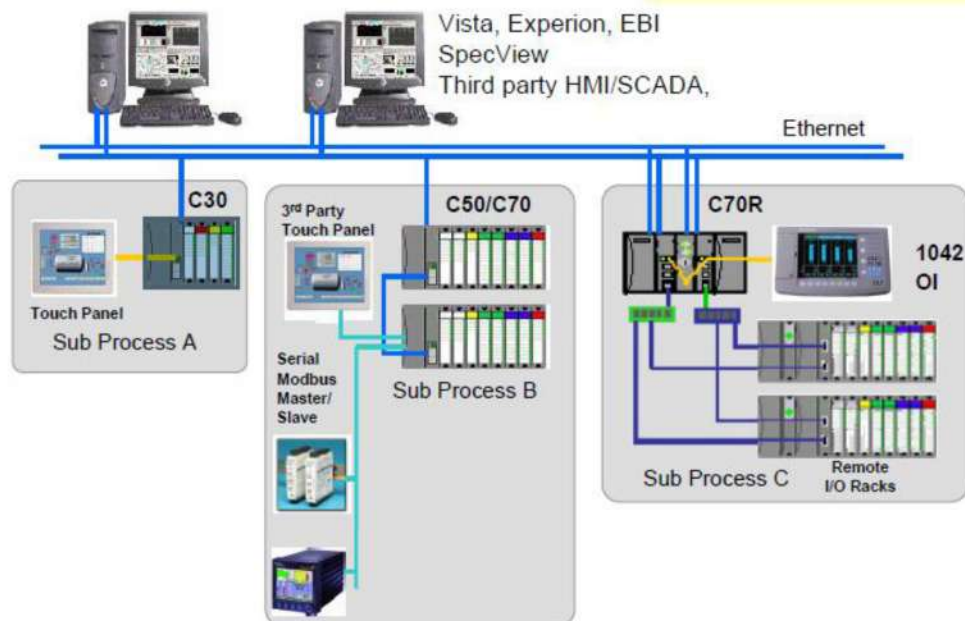
HONEYWELL HYBRID PLC [HC900-CONTROLLER]

Introduction: The HC900 process automation controller is an ideal control solution for user needs ranging from thermal control in boilers, furnaces, kilns, and dryers to unit processing in pharmaceutical, chemical, bio-fuel, pilot-plant and other applications. With its TUV certification, the HC900 safety system can be used in applications requiring SIL2 such as emergency shutdown (ESD), critical controls, burner management systems (BMS), pipeline monitoring, tunnel ventilation systems and other critical applications.

FEATURE SUMMARY:

- ✦ Modular rack structure; components are ordered individually as needed
- ✦ CPU with Ethernet communications
- ✦ Easy to assemble, modify, and expand
- ✦ Local (C30) and Remote input/output racks (C50/C70), private Ethernet-linked sub-network
- ✦ Parallel processing - a microprocessor in each I/O module performs signal processing, to preserve update rates
- ✦ Power supplies - provide power to CPU rack and Scanner I/O rack
- ✦ Redundant C70R CPU
- ✦ Redundancy Switch Module (RSM) – required between redundant CPUs
- ✦ Redundant Power Supply – provides redundant power to any CPU rack or Scanner2 I/O rack
- ✦ Power Status Module (PSM) – required when using a second power supply in Scanner2 I/O rack

Small to Large Automation
Cost Effective with each step



CURRENT PROJECTS:

- ✚ Currently we are in commissioning stage of Honeywell DCS C300 for 1500 I/Os (1X12 MW Power Plant) at M/s. K.R Pulp & Papers, Shahjahanpur (U.P)
- ✚ We provide preventive service visit at M/s. Garg Duplex Paper Mill, Muzaffar Nagar (U.P) for the Honeywell system HC900-C70.
- ✚ We provide preventive service visit at M/s. Shanti GD Ispat, Champa (C.G) for the Honeywell DCS C300

PROGRAMMABLE LOGIC CONTROLLER [PLC]

Introduction: MasterLogic-200, Honeywell’s next generation Programmable Logic Controllers (PLC), adds power and robustness to logic-interlock-sequence batch control capabilities of Experion network.

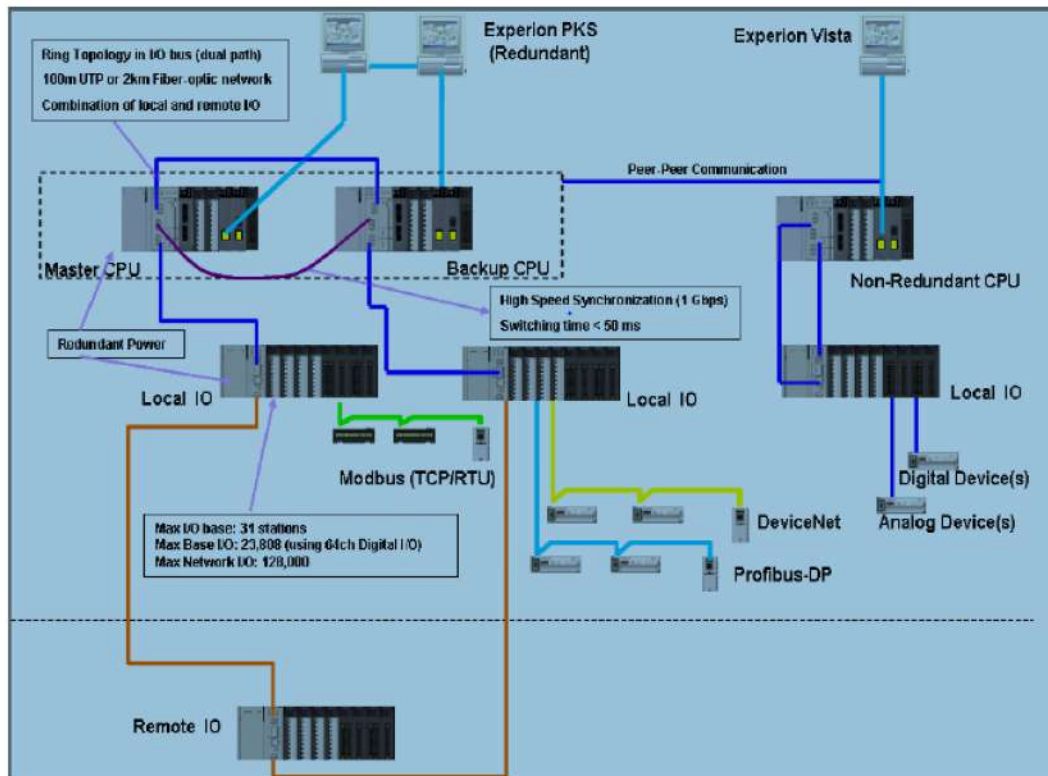
It is state of the art, compact yet powerful & versatile, cost-effective solution ideal for fast logic, sequential, and batch control applications.

MASTERLOGIC-200 PLC SYSTEM IS:

- ✚ Powerful & Versatile CPU (high speed / memory, IEC programming etc)
- ✚ Compact footprint (Rack room, cabinet space saver, shipping costs saver)
- ✚ Modular options (power supply, range of I/O modules to suit your configuration)
- ✚ Flexibility in module assignment – any module can be installed in any slot of any base without any restrictions.
- ✚ Open networks (Fast Ethernet, UTP/Fiber-Optic, serial RS232C /422/485)

- ✦ Open protocols (Profi bus-DP, MODBUS ASCII/RTU/TCP)
- ✦ Peer-to-Peer networks (Dedicated Fast Ethernet on UTP/Fiber-optic)
- ✦ Simulation Environment to test control strategies without hardware or process connections.
- ✦ Engineer-friendly software (Connection options, easy configuration & trouble-shooting)
- ✦ Diagnostics (System/Error Logs, system monitoring, network monitoring, ping test, frame monitor)
- ✦ Experion PKS & Experion HS Integration (PLC alarm/events, clock synch, etc)
- ✦ Redundancy (CPU, Power & I/O network redundancy)

HONEYWELL PLC GENERAL ARCHITECTURE



Our Customers



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