



## **MasterLogic-200/R (Hot-Standby System)**

### **Specifications and Technical Data**

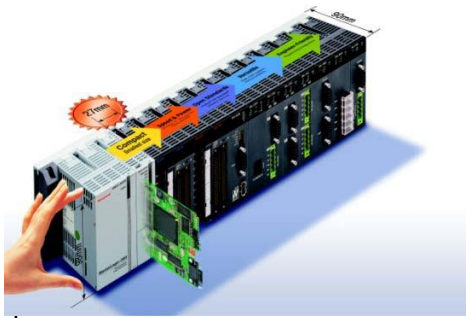
Revision Date: Dec 2013

Version 9.0

**Release 202**

# 1. Introduction

## 1.1 Overview



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

The highlights of MasterLogic-200 PLC system are:

- 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 (Profibus-DP, MODBUS ASCII/RTU/TCP, DeviceNet)
- 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 HS/LS Integration (PLC alarm/events, clock synch, etc)
- Redundancy (CPU, Power, I/O network redundancy)

## 1.2 MasterLogic-200 PLC system architecture

### Redundancy options

MasterLogic-200 provides the control system designer with various redundancy architecture options that fits the requirement.

#### ***Fully Redundant system***

CPU Model: 2MLR-CPUH/# provides a fully redundant system:

- Redundant CPU
- Redundant Power
- Redundant I/O cable (ring topology with single or dual paths)

#### ***Non-redundant system***

For cost-effective applications, CPU Model: 2MLI-CPU# provides a fully non-redundant system:

- Non-redundant CPU
- Non-redundant Power
- Non-redundant I/O cable

#### ***Non-redundant CPU with Redundant Power***

CPU Model: 2MLI-CPUS/P provides a non-redundant CPU with redundant power:

- Non-Redundant CPU
- Redundant Power
- Non-redundant I/O cable

#### ***Non-redundant CPU with Redundant Power and I/O cable***

A slight variation of the fully redundant architecture with only the master CPU of 2MLR-CPUH/# (excluding the standby CPU) offers the functionality of:

- Non-Redundant CPU
- Redundant Power
- Redundant I/O cable (ring topology with dual paths)

## 4.6 Analog I/O, High Speed Counter & Event Input Modules

Product	Model	Description	Remarks
Analog Input modules	2MLF-AV8A	Voltage Input: 8 channels	
	2MLF-AC8A	Current Input: 8 channels	
	2MLF-AD8A	Voltage/Current Input: 8 channels	
	2MLF-AD16A	Voltage/Current Input: 16 Channels	
	2MLF-AD4S	Voltage/Current Input: 4 channels	
	2MLF-AC4H	Current Input: 4 channels, HART	
Analog Output modules	2MLF-DV4A	Voltage Output: 4 channels	
	2MLF-DC4A	Current Output: 4 channels	
	2MLF-DC4S	Current Output: 4 channels, Isolation between channels	
	2MLF-DV8A	Voltage Output: 8 channels	
	2MLF-DC8A	Current Output: 8 channels	
	2MLF-DC4H	Current Output: 4 channels, HART	
Thermocouple Input	2MLF-TC4S	Temperature (T/C) Input, 4 channels, Isolation between channels	
RTD Input	2MLF-RD4A	Temperature (RTD) Input, 4 channels	
	2MLF-RD8A	Temperature (RTD) Input, 8 channels	
High speed Counter	2MLF-HO2A	Voltage Input type (Open Collector type) 200 kHz, 2 channel	
	2MLF-HD2A	Differential Input type (Line Driver type) 500 kHz, 2 channel	
Event Input	2MLF-SOEA	SOE input, 32 channel	