SIL System

Description	Model Number	SIL Compatible*
Racks		
4 I/O Slot Rack	900R04 – 0200	Yes
8 I/O Slot Rack	900R08 – 0200	Yes
12 I/O Slot Rack	900R12 – 0200	Yes
8 Slot Rack -Red. Power	900R08R – 0200	Yes
12 Slot Rack - Red. Power	900R12R – 0200	Yes
Redundant CPU Rack	900RR0 – 0101	Yes
Controllers		
Controller C30 CPU – SIL	900C30S – 0360-00	Yes
Controller C50 CPU – SIL	900C50S – 0360-00	Yes
Controller C70 CPU – SIL	900C70S – 0360-00	Yes
Controller C75 CPU – SIL	900C75S – 0360-00	Yes
I/O Scanner – 1 Port (1 per I/O rack) - SIL	900S50S – 0360-00	Yes
I/O Scanner – 2 Port (1 per I/O rack) - SIL	900S75S – 0360-00	Yes
Documentation		
Full Document set on CD – SIL	900ME1S – 0060-00	Yes
Full document set, SIL hard copy – English	900ME2S – 0060-00	Yes
I/O Modules		
Analog Input (8 channel)	900A01-0202	Yes
Analog Input Hi level (16channel)	900A16-0101	Yes
Analog Output, 0 to 20mA, (4 channel)	900B01-0301	Yes
Analog Output, 0 to 20mA, (8 channel)	900B08-0202	Yes
Analog Output, 0 to 20mA, (16 channel)	900B16-0202	Yes
Digital Input, Contact type, (16 channel)	900G01-0202	Yes
Digital Input, 24VDC (16 channel)	900G02-0202	Yes
Digital Input, 120/240 VAC, (16 channel)	900G03-0202	Yes
Digital In, 120/240 VAC, 125VDC (16 channel-Isolated)	900G04-0101	Yes
Digital Input, 24VDC (32 channel)	900G32-0101	Yes
Digital Output, Relays (8 channel)	900H01-0202	Yes
Digital Output, 24VDC (16 channel)	900H02-0202	Yes
Digital Output, 120/240 VAC (8 channel)	900H03-0202	Yes
Digital Output, 24VDC (32 channel)	900H32-0102	Yes
Pulse/Freq/Quad (4chan, 1Quad)	900K01-0201	May be used in Safety systems on the Process Worksheet ONLY.

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Throughout this guide, where the text “New systems” is used, the following model numbers are applicable.

Note: Model number change: 900*xx where if *= C designates Controller module and *=S designates Scanner module.

- **New System (SIL and Non SIL Model Numbers)***
  - 900C30-0360-00
  - 900C50-0360-00
  - 900C70-0360-00
  - 900C75-0360-00
  - 900S75-0360-00
  - 900S50-0360-00
  - 900C30S - 0360-00
  - 900C50S - 0360-00
  - 900C70S - 0360-00
  - 900C75S-0360-00
  - 900S50S - 0360-00
  - 900S75S-0360-00

*Reference only – For the latest Hardware and firmware revision numbers can be found at: https://www.honeywellprocess.com/library/support/Public/Downloads/HC900-SafetyControllerModulesRevisions.zip

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ATTENTION

For the Legacy systems, it is specifically mentioned in the guide wherever applicable. The other text is applicable to the new HC900 system. Modems are not qualified with the new HC900 system.

Checking HC900 Model Numbers for Compatibility

ATTENTION

Be sure to check your model numbers for compatibility before installation. For a HC900 system to be fully compatible, all components must have matching model numbers.

Each component's model number format is XXXXXXX–XXYY-ZZ. For example, HC900 CPU is 900C71R-0000-40. For redundant CPU systems, component model numbers ZZ numbers must match. For non-redundant CPU systems, component model numbers YY numbers must match. See examples below.

Example of a compatible redundant system

Component	**Model Number** XXXXXXX-XXYY-**ZZ**
HC900 CPU	900C71R-0000-40
Scanner 2	900C73R-0000-40
HC Designer Software	900W01-0040-40
Manuals CD	900ME1-0040-40

Example of a compatible non-redundant system

Component	**Model Number** XXXXXX-XX**YY**-ZZ
HC900 CPU	900C51-00**40**-00
Scanner 1	900C53-00**40**-00
HC Designer Software	900W01-00**40**-40
Manuals CD	900ME1-00**40**-40

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Functional Description

All Controllers

The Honeywell HC900 Process Controller is an integrated loop and logic controller that is designed specifically for small-and medium-scale unit operations

It comprises a set of hardware and software modules that can be assembled to satisfy any of a broad range of process control applications. The HC900 Process Controller can consist of a single rack, as indicated in Figure 1, or can be can be networked with other controllers via Ethernet links to expand the dimensions of control over a wider range of unit processes, as indicated in Figure 2.

Although the HC900 E1/E2 ports provide protection against Cyber-security/DOS type attacks, additional protection is required for safety applications using a firewall device configured to prevent uncontrolled messages into the controller. Please refer to Ethernet Devices/Considerations Section in this manual for further information. The figures in this manual assume the firewall is installed properly above the controller's Ethernet connection(s) E1 and E2.



Figure 1 – Small HC900 Controller Configuration

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The HC900-expansion I/O link is a private network and the switch used for the interconnection of the HC900 Processor and Scanners must not be connected to any other LAN or WAN. Likewise, no devices other than the HC900 components should be connected to the I/O link Switch. Failure to comply will cause communication failures on the I/O link causing I/O modules to go in and out of their failsafe settings.

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