

10020/1/2

Conformally Coated Quad Processor Module

Honeywell 10020/1/2 is a conformally coated Quad Processor Module for a Fail Safe Controller. It executes the FSC safety application within the central controller node.

PRODUCT SNAPSHOT

BRAND

Honeywell

FAMILY

Fail Safe Controller

PART

10020/1/2

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10020/1/2

PRODUCT OVERVIEW

Honeywell 10020/1/2 is a conformally coated Quad Processor Module for a Fail Safe Controller. It executes the FSC safety application within the central controller node.

1

Executes the FSC processor functions

2

Uses a quad-processor architecture

3

Operates in the central FSC node

4

Supports safety application execution

SYSTEM COMPONENTS

FSC central part

FSC system bus

Diagnostic and battery module

Safety application database

TECHNICAL DATA

PARAMETER	VALUE
Processor arrangement	Quad
Board coating	Conformal

PARAMETER	VALUE
Node family	FSC

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TECHNICAL NOTE

Secure the process in the approved maintenance state, preserve the application and node configuration, and validate all processor diagnostics before release.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Emergency shutdown logic

Executes the FSC processor functions

Burner management processing

Uses a quad-processor architecture

Fire-and-gas safety control

Operates in the central FSC node

FSC processor maintenance

Supports safety application execution

PRODUCT PRECAUTIONS

- 1 Verify the complete 10020/1/2 marking and the assigned Fail Safe Controller position before field work.
- 2 Isolate the applicable power, network and field energy before disconnecting 10020/1/2.
- 3 Use ESD controls and protect the keyed connectors of 10020/1/2 during handling.
- 4 Record the installed wiring, jumpers, node or channel assignment before replacement.
- 5 Confirm FSC central part and FSC system bus against the approved system configuration.
- 6 Restore 10020/1/2 under controlled conditions and review the product-specific diagnostics.
- 7 Complete a functional test for emergency shutdown logic before production release.

ENGINEER FAQ

Q1 Which FSC central part identity must be verified before fitting the 10020/1/2 Conformally Coated Quad Processor Module?

Match the complete 10020/1/2 marking, assigned Fail Safe Controller position and installed FSC central part before work.

Q2 How should FSC system bus be isolated before disconnecting the 10020/1/2 Conformally Coated Quad Processor Module?

Place the affected process in its approved maintenance state, isolate applicable energy and prove FSC system bus safe before disconnection.

Q3 What as-found wiring record is required for the 10020/1/2 Conformally Coated Quad Processor Module in Emergency shutdown logic?

Record terminal identity, polarity, shields, jumpers, cable tags and the as-found diagnostic state for 10020/1/2.

Q4 Which Fail Safe Controller configuration must be checked when commissioning the 10020/1/2 Conformally Coated Quad Processor Module?

Verify the assigned channel, slot, node or interface and compare it with the approved Fail Safe Controller configuration before enabling 10020/1/2.

Q5 How can the 10020/1/2 Conformally Coated Quad Processor Module be function-tested for Burner management processing without disturbing the process?

Use a controlled stimulus or limited command, observe the expected system indication and confirm the intended response while normal interlocks remain effective.

Q6 Which diagnostics should be reviewed if the 10020/1/2 Conformally Coated Quad Processor Module stops performing its assigned system function?

Check seating, the matched FSC central part, the condition of FSC system bus and the model-specific diagnostics before replacing more hardware.

Q7 Can the 10020/1/2 Conformally Coated Quad Processor Module used for Fire-and-gas safety control be transferred to another Fail Safe Controller position without engineering review?

No. Confirm the hardware execution, connector scheme and approved Fail Safe Controller configuration before transferring 10020/1/2 to a different duty.

Q8 What evidence should be retained after the 10020/1/2 Conformally Coated Quad Processor Module returns to FSC processor maintenance service?

Retain the physical identification, as-left wiring or configuration, final diagnostics and controlled functional-test result for 10020/1/2.

SOURCE Honeywell System HINTS September 2022 | FSC node parts list

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