

10024/I/F

Conformally Coated Enhanced Communication Module

Honeywell 10024/I/F is a conformally coated enhanced FSC communication module. It provides one RS-422/485 interface and one RS-232 interface for configured serial links.

PRODUCT SNAPSHOT

BRAND

Honeywell

FAMILY

Fail Safe Controller

PART

10024/I/F

ORIGIN / HS

USA / 8537101190

APTER POWER SALES TEAM

WHATSAPP / PHONE

+86 180 3023 5313

EMAIL

sales13@apterpower.com

WEBSITE

www.apterpower.com



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PRODUCT OVERVIEW

Honeywell 10024/I/F is a conformally coated enhanced FSC communication module. It provides one RS-422/485 interface and one RS-232 interface for configured serial links.

1

Provides an isolated multidrop serial path

2

Provides a point-to-point serial path

3

Interfaces external serial equipment to FSC

4

Uses conformally coated communication hardware

SYSTEM COMPONENTS

FSC central part

RS-422/485 cable

RS-232 cable

Configured external serial devices

TECHNICAL DATA

PARAMETER	VALUE
Serial interface 1	RS-422/485
Serial interface 2	RS-232

PARAMETER	VALUE
Board coating	Conformal
Node family	FSC

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TECHNICAL NOTE

Record port parameters and device addresses, preserve shield and termination rules, and test receive/transmit operation on each interface separately.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Safety PLC serial gateways

Provides an isolated multidrop serial path

Package-unit communication

Provides a point-to-point serial path

FSC maintenance terminals

Interfaces external serial equipment to FSC

Legacy serial protocol integration

Uses conformally coated communication hardware

PRODUCT PRECAUTIONS

- 1 Verify the complete 10024/I/F marking and the assigned Fail Safe Controller position before field work.
- 2 Isolate the applicable power, network and field energy before disconnecting 10024/I/F.
- 3 Use ESD controls and protect the keyed connectors of 10024/I/F during handling.
- 4 Record the installed wiring, jumpers, node or channel assignment before replacement.
- 5 Confirm FSC central part and RS-422/485 cable against the approved system configuration.
- 6 Restore 10024/I/F under controlled conditions and review the product-specific diagnostics.
- 7 Complete a functional test for safety plc serial gateways before production release.

ENGINEER FAQ

Q1 Which FSC central part identity must be verified before fitting the 10024//F Conformally Coated Enhanced Communication Module?

Match the complete 10024//F marking, assigned Fail Safe Controller position and installed FSC central part before work.

Q2 How should RS-422/485 cable be isolated before disconnecting the 10024//F Conformally Coated Enhanced Communication Module?

Place the affected process in its approved maintenance state, isolate applicable energy and prove RS-422/485 cable safe before disconnection.

Q3 What as-found wiring record is required for the 10024//F Conformally Coated Enhanced Communication Module in Safety PLC serial gateways?

Record terminal identity, polarity, shields, jumpers, cable tags and the as-found diagnostic state for 10024//F.

Q4 Which Fail Safe Controller configuration must be checked when commissioning the 10024//F Conformally Coated Enhanced Communication Module?

Verify the assigned channel, slot, node or interface and compare it with the approved Fail Safe Controller configuration before enabling 10024//F.

Q5 How can the 10024//F Conformally Coated Enhanced Communication Module be function-tested for Package-unit communication 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 10024//F Conformally Coated Enhanced Communication Module stops performing its assigned system function?

Check seating, the matched FSC central part, the condition of RS-422/485 cable and the model-specific diagnostics before replacing more hardware.

Q7 Can the 10024//F Conformally Coated Enhanced Communication Module used for FSC maintenance terminals 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 10024//F to a different duty.

Q8 What evidence should be retained after the 10024//F Conformally Coated Enhanced Communication Module returns to Legacy serial protocol integration service?

Retain the physical identification, as-left wiring or configuration, final diagnostics and controlled functional-test result for 10024//F.

SOURCE Honeywell System HINTS September 2022 | FSC node parts list

+86 180 3023 5313 | sales13@apterpower.com | www.apterpower.com