

FC-QPP-0002

Quad Processor Pack control processor

Honeywell FC-QPP-0002 is the Quad Processor Pack control-processor module for Safety Manager. It uses 24 V DC and 5 V DC supplies and provides shutdown input and watchdog output interfaces for the controller architecture.

IDENTITY	VERIFIED VALUE
Manufacturer	Honeywell
Complete model	FC-QPP-0002
Product role	Quad Processor Pack control processor
System family	Safety Manager
Country of origin	USA

DOCUMENT SCOPE

Exact identity, manufacturer-supported technical data, installation checks, applications, precautions and controlled verification records.

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FC-QPP-0002

Technical Specifications

PARAMETER	VERIFIED VALUE
Module type	Quad Processor Pack
Outside operating temperature	-5 to +70 °C
Inside operating temperature	-5 to +85 °C
Storage temperature	-40 to +85 °C
Relative humidity	10-95% non-condensing
24 V supply	24 V DC -15% / +30%; 25 mA max
5 V supply	5 V DC ±5%; 1.2 A max
Shutdown output	15-31 V DC; continuous short-circuit protection
Shutdown input high	15-32 V DC
Shutdown input low	Below 4 V; reverse-polarity protected
Watchdog output current	750 mA per output
Approvals	CE, UL, CSA, TUV and FM

Model-Specific Engineering Note

ENGINEERING BOUNDARY

Record the FC-QPP-0002 slot, partner processor, 24 V and 5 V supplies, shutdown wiring and watchdog outputs before replacement. Restore the approved controller firmware and application, then prove diagnostics, redundancy and safety logic before release.

Pre-Installation Checks

NO.	REQUIRED CHECK
1	Verify the complete FC-QPP-0002 marking and revision before work.
2	Place affected safety functions in the approved maintenance state.
3	Record both 24 V DC and 5 V DC supply measurements.
4	Record shutdown input, shutdown output and watchdog terminal assignments.
5	Use ESD controls and protect backplane connectors.

System Role and Architecture

Honeywell FC-QPP-0002 is the Quad Processor Pack control-processor module for Safety Manager. It uses 24 V DC and 5 V DC supplies and provides shutdown input and watchdog output interfaces for the controller architecture.

FUNCTION 1
Safety Manager Quad Processor Pack

FUNCTION 2
Dual 24 V and 5 V supply domains

FUNCTION 3
Protected shutdown input/output circuits

FUNCTION 4
Watchdog outputs rated 750 mA each

Common Applications

APPLICATION	ENGINEERING CONTEXT
Safety controller processing	Executes the approved Safety Manager application and diagnostic functions.
Redundant processor maintenance	Restores a recorded processor position while preserving partner state.
Shutdown-path supervision	Interfaces the documented shutdown input and protected shutdown output.
Watchdog signaling	Provides configured watchdog output paths for system supervision.

CONTROLLED ACCEPTANCE DUTY
Confirm identity, physical interface, companion hardware, configured values and functional response against the installed-system record before release.

Engineering Precautions

NO.	PRECAUTION
1	Verify the complete FC-QPP-0002 marking and revision before work.
2	Place affected safety functions in the approved maintenance state.
3	Record both 24 V DC and 5 V DC supply measurements.
4	Record shutdown input, shutdown output and watchdog terminal assignments.
5	Use ESD controls and protect backplane connectors.
6	Restore only the approved controller firmware and application.
7	Confirm processor diagnostics and redundant-partner state after startup.
8	Prove safety logic, shutdown behavior and watchdog outputs before release.

Model-Specific FAQ — Part 1

QUESTION	ANSWER
Which two supply domains are required by FC-QPP-0002?	It uses 24 V DC and 5 V DC supplies.
What 5 V current limit is published for FC-QPP-0002?	The maximum 5 V supply current is 1.2 A.
What high-state range applies to the shutdown input on FC-QPP-0002?	The documented high input range is 15-32 V DC.
How is the low shutdown input protected on FC-QPP-0002?	Below 4 V is the low state and reverse-polarity protection is documented.

Model-Specific FAQ — Part 2

QUESTION	ANSWER
Is the shutdown output of short-circuit protected FC-QPP-0002?	Yes. Continuous short-circuit protection is documented.
What watchdog current is available from FC-QPP-0002?	Each watchdog output is rated 750 mA.
Which approvals are listed for FC-QPP-0002?	The hardware reference lists CE, UL, CSA, TUV and FM.
What evidence closes a replacement of FC-QPP-0002?	Record supplies, firmware, application checksum, diagnostics, redundancy, shutdown path and watchdog tests.

Related Products on Apter Power

MODEL	APTER POWER PAGE
Honeywell 51402497-200	Open product page
Honeywell 51402573-100	Open product page
Honeywell 51402573-250	Open product page
Honeywell 51402615-400	Open product page
Honeywell 51403519-160	Open product page
Honeywell 51403698-100	Open product page
Honeywell 51403776-100	Open product page
Honeywell 51405098-100	Open product page

MANUFACTURER SOURCE RECORD

Safety Manager Hardware Reference
EP-SM.MAN.6284 Issue 1.10; QPP-0002 datasheet version 1.1

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