

10102/2/1

Four-Channel Safe Analog Input Module

Honeywell 10102/2/1 is a four-channel conformally coated safe analog-input module for the Fail Safe Controller. It acquires analog process measurements for safety logic execution.

PRODUCT SNAPSHOT

BRAND

Honeywell

FAMILY

Fail Safe Controller

PART

10102/2/1

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10102/2/1

PRODUCT OVERVIEW

Honeywell 10102/2/1 is a four-channel conformally coated safe analog-input module for the Fail Safe Controller. It acquires analog process measurements for safety logic execution.

1

Acquires four analog field measurements

2

Transfers safety-related values to the FSC logic

3

Fits the configured FSC I/O arrangement

4

Provides coated hardware for protected cabinets

SYSTEM COMPONENTS

FSC I/O rack

Matched analog-input termination hardware

Safety-related transmitters

FSC application configuration

TECHNICAL DATA

PARAMETER	VALUE
Module function	Safe analog input
Input channels	4

PARAMETER	VALUE
Coating	Conformal

OFFICIALLY LISTED FSC ANALOG CONVERTER MODULES

FSC IDENTIFIER	DOCUMENTED SIGNAL FORMAT
10102/A/1	0(4)-20 mA, internally powered
10102/A/2	0(4)-20 mA, externally powered
10102/A/3	0(1)-5 V
10102/A/4	0(2)-10 V

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
10311/2/1	FSC dual key-switch assembly	Open product page
10020/1/2	FSC conformally coated quad processor module	Open product page
10014/1/1	FSC dual-port communication module	Open product page
10006/2/1	FSC diagnostic battery module	Open product page

TECHNICAL NOTE

Confirm the FSC slot and application channel mapping, isolate transmitter loops and prove scaling and trip behavior under the approved safety test procedure.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Emergency shutdown measurement inputs

Acquires four analog field measurements

Fire-and-gas analog monitoring

Transfers safety-related values to the FSC logic

Compressor protection measurements

Fits the configured FSC I/O arrangement

Burner safety analog supervision

Provides coated hardware for protected cabinets

PRODUCT PRECAUTIONS

- 1 Verify the complete 10102/2/1 marking and its assigned Fail Safe Controller position before work.
- 2 Isolate the energy associated with FSC I/O rack before disconnecting 10102/2/1.
- 3 Protect the 10102/2/1 connectors and electronic assembly using approved ESD controls.
- 4 Record the as-found Matched analog-input termination hardware connections and configured assignment before replacement.
- 5 Confirm Safety-related transmitters matches the approved installation record for 10102/2/1.
- 6 Restore 10102/2/1 under controlled conditions and review its model-specific diagnostics.
- 7 Complete a documented functional test for emergency shutdown measurement inputs before release.

ENGINEER FAQ

Q1 Does 10102/2/1 match FSC I/O rack in a Emergency shutdown measurement inputs installation?

Verify the complete 10102/2/1 marking, the documented Fail Safe Controller position and the installed FSC I/O rack before fitting the assembly.

Q3 Which Fail Safe Controller records should be captured before removing 10102/2/1?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with 10102/2/1 before disconnection.

Q5 Which Matched analog-input termination hardware condition should be checked when 10102/2/1 reports an abnormal state?

Check the Matched analog-input termination hardware supply, seating and connection first, then compare channel diagnostics with the recorded 10102/2/1 baseline.

Q7 What maintenance evidence is required after 10102/2/1 is used for Compressor protection measurements?

Retain the nameplate record, corrective action, final diagnostics and a controlled compressor protection measurements functional-test result for 10102/2/1.

Q2 How should 10102/2/1 be wired when it must acquires four analog field measurements?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for 10102/2/1; then continuity-test the affected path.

Q4 What controlled test confirms that 10102/2/1 can transfers safety-related values to the fsc logic?

Apply the approved field or simulated stimulus, observe the Fail Safe Controller indication and confirm the intended response without bypassing the normal interlocks.

Q6 Can 10102/2/1 be moved directly into Fire-and-gas analog monitoring without validating FSC application configuration?

No. Confirm the FSC application configuration, revision, connection scheme and Fail Safe Controller configuration before transferring 10102/2/1 to that duty.

Q8 How should 10102/2/1 be returned to service in Burner safety analog supervision?

Restore power under control, verify fits the configured fsc i/o arrangement, exercise the intended signal path and release 10102/2/1 only after the Fail Safe Controller remains in its approved operating state.