

900H02-0202

ControlEdge HC900 Sixteen-Channel Digital Output Module

Honeywell 900H02-0202 is a sixteen-channel current-sinking digital output module for ControlEdge HC900. It switches grouped DC field loads from controller commands and provides electronic output protection.

PRODUCT SNAPSHOT

BRAND

Honeywell

FAMILY

ControlEdge HC900 I/O

PART

900H02-0202

HS CODE

8537101190

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PRODUCT OVERVIEW

Honeywell 900H02-0202 is a sixteen-channel current-sinking digital output module for ControlEdge HC900. It switches grouped DC field loads from controller commands and provides electronic output protection.

- 1

Switches sixteen low-side DC field loads
- 2

Separates outputs into two isolated groups of eight
- 3

Limits excessive current and device temperature electronically
- 4

Executes ControlEdge HC900 logic commands at the field interface

SYSTEM COMPONENTS

- ControlEdge HC900 rack
- 6.5-32 Vdc field supply
- compatible resistive or limited inductive loads
- HC Designer control strategy

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
900G02-0202	HC900 digital-input module	Open product page
8C-TDODB1	Series 8 redundant digital-output IOTA	Open product page
CC-PAOH01	Series C analog-output module with HART	Open product page
MC-TPIX12	TPS pulse-input termination assembly	Open product page

TECHNICAL DATA

PARAMETER	VALUE
Output channels	16
Channel grouping	2 isolated groups of 8
Output type	Current-sinking low-side
Operating voltage	6.5 to 32 Vdc
Low-voltage operation	5 to 6.5 Vdc below 0.5 A per channel
Peak output voltage	34 Vdc
ON-state voltage drop	0.3 Vdc at 1 A
Resistive load	1 A per point; 8 A per module
Incandescent load	0.5 A per point

PARAMETER	VALUE
Inductive load	5 mH maximum
OFF-state leakage	0.15 mA at 32 V
Inrush current	4 A for 10 ms
Minimum load	0 mA
OFF-to-ON response	6 ms maximum
ON-to-OFF response	6 ms maximum
5 V loading	340 mA maximum
24 V loading	0 mA
Protection	Electronic high-current and high-temperature limiting

TECHNICAL NOTE

Confirm load type, group supply and per-channel current before wiring, then command each output under controlled conditions and verify that protective limiting and field response operate correctly.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Solenoid and relay-coil command outputs

Switches sixteen low-side DC field loads

Machine actuator enable circuits

Separates outputs into two isolated groups of eight

Grouped DC annunciator outputs

Limits excessive current and device temperature electronically

Protected package-unit command interface

Executes ControlEdge HC900 logic commands at the field interface

PRODUCT PRECAUTIONS

- 1 Verify 900H02-0202 and the assigned output slot before field work.
- 2 Secure all commanded equipment and isolate both output-group supplies.
- 3 Record channel loads, common returns and safe-state requirements.
- 4 Check resistive, incandescent and inductive loads against their applicable limits.
- 5 Use ESD controls and inspect the rack and module connectors before insertion.
- 6 Restore controller configuration without energizing field loads initially.
- 7 Apply field power and test outputs individually while monitoring load current.
- 8 Clear any protection trip by the documented field-power cycle and verify final diagnostics.

ENGINEER FAQ

Q1 Does 900H02-0202 match ControlEdge HC900 rack in a Solenoid and relay-coil command outputs installation?

Verify the complete 900H02-0202 marking, the documented ControlEdge HC900 I/O position and the installed ControlEdge HC900 rack before fitting the assembly.

Q2 How should 900H02-0202 be wired when it must switches sixteen low-side dc field loads?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for 900H02-0202; then continuity-test the affected path.

Q3 Which ControlEdge HC900 I/O records should be captured before removing 900H02-0202?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with 900H02-0202 before disconnection.

Q4 What controlled test confirms that 900H02-0202 can separates outputs into two isolated groups of eight?

Apply the approved field or simulated stimulus, observe the ControlEdge HC900 I/O indication and confirm the intended response without bypassing the normal interlocks.

Q5 Which 6.5-32 Vdc field supply condition should be checked when 900H02-0202 reports an abnormal state?

Check the 6.5-32 Vdc field supply supply, seating and connection first, then compare channel diagnostics with the recorded 900H02-0202 baseline.

Q6 Can 900H02-0202 be moved directly into Machine actuator enable circuits without validating HC Designer control strategy?

No. Confirm the HC Designer control strategy, revision, connection scheme and ControlEdge HC900 I/O configuration before transferring 900H02-0202 to that duty.

Q7 What maintenance evidence is required after 900H02-0202 is used for Grouped DC annunciator outputs?

Retain the nameplate record, corrective action, final diagnostics and a controlled grouped dc annunciator outputs functional-test result for 900H02-0202.

Q8 How should 900H02-0202 be returned to service in Protected package-unit command interface?

Restore power under control, verify limits excessive current and device temperature electronically, exercise the intended signal path and release 900H02-0202 only after the ControlEdge HC900 I/O remains in its approved operating state.