

# Eight-Channel 120/240 Vac Digital Output Module

Honeywell 900H03-0102 is an eight-channel 120/240 Vac digital output module for HC900. It switches AC field loads from controller output commands.

## IDENTITY RECORD

|                                   |                                           |
|-----------------------------------|-------------------------------------------|
| <b>MANUFACTURER</b><br>Honeywell  | <b>FAMILY</b><br>HC900 Process Controller |
| <b>EXACT MODEL</b><br>900H03-0102 | <b>PRIMARY DUTY</b><br>AC solenoid banks  |

## APTER POWER SALES TEAM

|                  |                        |
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## REFERENCE PURPOSE

- 1 Establish the exact product identity and installed-system boundary.
- 2 Summarize manufacturer-supported technical data without transferring values from a similar model.
- 3 Provide a compact engineering path for selection, replacement and controlled commissioning.
- 4 Link verified related Apter Power product pages for adjacent family hardware.

TECHNICAL DATA

|                   |                          |
|-------------------|--------------------------|
| Output channels   | 8                        |
| Output voltage    | 120/240 Vac              |
| Signal type       | AC digital output        |
| Controller family | HC900                    |
| Installation form | HC900 rack I/O module    |
| Load interface    | Protected AC field loads |

ENGINEERING NOTE

Isolate the AC load supply, verify each channel protection device and load rating, then test one output at a time under controlled conditions.

TECHNICAL VERIFICATION MATRIX

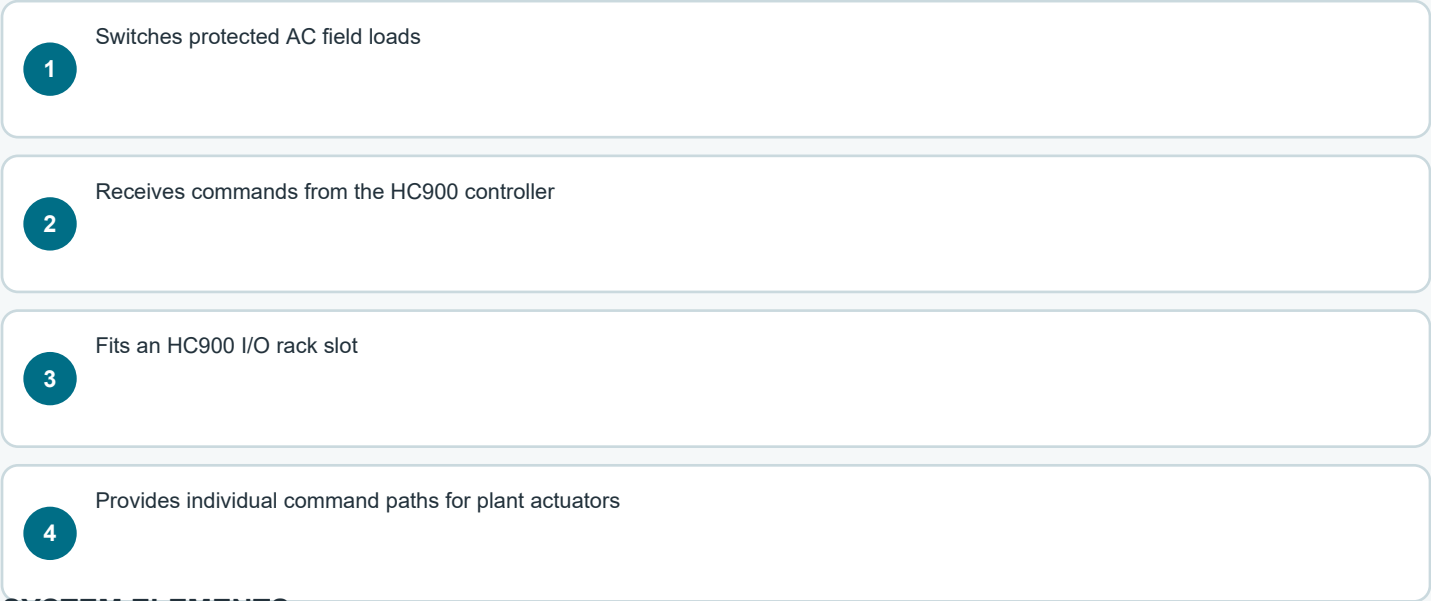
|                      |                                                        |
|----------------------|--------------------------------------------------------|
| Identity control     | Full model marking 900H03-0102 and installed execution |
| Host-system boundary | HC900 Process Controller                               |
| Companion hardware   | HC900 I/O rack / 120/240 Vac load supply               |
| Acceptance evidence  | Documented ac solenoid banks functional result         |

MANUFACTURER SOURCE RECORD

Honeywell HC900 Process Controller Installation and User Guide | 51-52-25-107 Revision 18

Functional path and compatible system elements

FUNCTIONAL PATH



SYSTEM ELEMENTS



APPLICATION BOUNDARIES

|                         |                                                       |
|-------------------------|-------------------------------------------------------|
| AC solenoid banks       | Switches protected AC field loads                     |
| Contactor coil commands | Receives commands from the HC900 controller           |
| Alarm beacon circuits   | Fits an HC900 I/O rack slot                           |
| Heater enable outputs   | Provides individual command paths for plant actuators |

CONTROLLED WORK SEQUENCE

- 1
- Verify the complete 900H03-0102 marking, hardware execution and assigned HC900 Process Controller position.

- 2
- Place the process in the approved maintenance state and isolate every applicable energy source.

- 3
- Record as-found wiring, shields, jumpers, cable tags, slot identity and diagnostics before removing 900H03-0102.

- 4
- Use ESD controls and protect keyed connectors, terminals and assemblies while handling 900H03-0102.

- 5
- Confirm the installed HC900 I/O rack and 120/240 Vac load supply against approved drawings and configuration records.

- 6
- Inspect mating hardware, terminal condition, grounding and mechanical retention before installation.

- 7
- Restore power or network service in controlled stages; confirm status indications before functional commands.

- 8
- Complete a documented functional test for ac solenoid banks and retain the as-left record.

DIAGNOSTIC DECISION GATE

If the expected response is absent, do not immediately transfer configuration or replace adjacent hardware. Recheck identity, seating, supply or network state, terminations, channel assignment and manufacturer diagnostics; then repeat the controlled test.

Related family pages, engineer FAQ and source record

Related HC900 Process Controller products on Apter Power

| MODEL       | SERIES / SYSTEM ROLE                        | APTER POWER PAGE                  |
|-------------|---------------------------------------------|-----------------------------------|
| 900H02-0202 | HC900 900H-series output module             | <a href="#">Open product page</a> |
| 900G03-0102 | 16-channel 120/240 Vac digital input module | <a href="#">Open product page</a> |
| 900G02-0102 | 16-channel 24 Vdc digital input module      | <a href="#">Open product page</a> |
| 900B01-0101 | 4-channel isolated 0–20 mA analog output    | <a href="#">Open product page</a> |
| 900B08-0202 | HC900 900B-series analog module             | <a href="#">Open product page</a> |

ENGINEER FAQ

|    |                                                  |                                                                                                                                         |
|----|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Q1 | What must be matched before installation?        | Match the full 900H03-0102 marking, revision or execution, assigned position and installed companion hardware.                          |
| Q2 | What should be isolated first?                   | Use the site's approved maintenance state and isolate the energy sources serving HC900 I/O rack and 120/240 Vac load supply.            |
| Q3 | What as-found record is required?                | Record terminal identity, polarity, shields, jumpers, cable tags, configuration and diagnostic status.                                  |
| Q4 | Which compatibility check is mandatory?          | Compare the HC900 Process Controller slot, interface, companion hardware and wiring scheme with approved project documentation.         |
| Q5 | How should commissioning begin?                  | Begin with visual and continuity checks, then restore service in stages and observe normal status indications.                          |
| Q6 | How should the assigned function be proved?      | Use a controlled test for ac solenoid banks while required interlocks and process safeguards remain effective.                          |
| Q7 | What should be checked after an abnormal result? | Recheck seating, terminations, supply or network condition, channel assignment and manufacturer diagnostics before further replacement. |
| Q8 | What evidence should be retained?                | Retain the 900H03-0102 identity, as-left wiring/configuration, final diagnostics and functional-test result.                            |

MANUFACTURER SOURCE RECORD

Honeywell HC900 Process Controller Installation and User Guide | 51-52-25-107 Revision 18