

900B16-0202

ControlEdge HC900 16-Channel Analog Output Module

Honeywell 900B16-0202 is a ControlEdge HC900 analog output module with sixteen user-scalable 0–21.0 mA channels. Its outputs are isolated in four groups of four and include output-current feedback and stored calibration data.

IDENTITY	VERIFIED VALUE
Manufacturer	Honeywell
Complete model	900B16-0202
Product role	ControlEdge HC900 16-Channel Analog Output Module
System family	ControlEdge HC900
Country of origin	USA

DOCUMENT SCOPE

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

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900B16-0202

Technical Specifications

PARAMETER	VERIFIED VALUE
Output channels	16
Output range	0 to 21.0 mA; user scalable
Isolation arrangement	Four groups of four channels
Group-to-group isolation	500 VDC
Maximum load	750 ohm
Reference accuracy	0.1% of full scale
D/A resolution	More than 13 bits; 1 part in 13,332
Current sensing	Greater than 0.5 mA
External power	18 to 36 VDC; 700 mA per module
Terminal block	900TCK-0001, 36-position Euro style

Model-Specific Engineering Note

ENGINEERING BOUNDARY

Before replacing 900B16-0202, record all sixteen channel ranges, terminal numbers, load assignments and the internal/external 24 V power selection. Restore the approved configuration and verify commanded versus measured current for every used output.

Pre-Installation Checks

NO.	REQUIRED CHECK
1	Verify the complete 900B16-0202 marking and installed HC900 rack position.
2	Record all sixteen channel ranges, terminal assignments and connected loads.
3	Place every affected control loop in the approved maintenance state.
4	Confirm the internal/external power DIP selection before wiring field power.
5	Do not exceed 750 ohm load or the published current and voltage limits.

System Role and Architecture

Honeywell 900B16-0202 is a ControlEdge HC900 analog output module with sixteen user-scalable 0–21.0 mA channels. Its outputs are isolated in four groups of four and include output-current feedback and stored calibration data.

FUNCTION 1

Sixteen independently scalable current outputs

FUNCTION 2

Four isolated groups of four output channels

FUNCTION 3

Output-current feedback with calibration diagnostics

FUNCTION 4

Selectable internal or external 24 VDC field power

Common Applications

APPLICATION	ENGINEERING CONTEXT
Control-valve positioning	Drives sixteen 4–20 mA final-control elements from HC900 control strategies.
Process setpoint transmission	Sends isolated current references to drives, analyzers or remote instruments.
Multi-loop analog control	Groups four channels per isolation domain for compact process-control cabinets.
Redundant calibration recovery	Uses nonvolatile factory and field calibration records for controlled maintenance.

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 900B16-0202 marking and installed HC900 rack position.
2	Record all sixteen channel ranges, terminal assignments and connected loads.
3	Place every affected control loop in the approved maintenance state.
4	Confirm the internal/external power DIP selection before wiring field power.
5	Do not exceed 750 ohm load or the published current and voltage limits.
6	Observe the four groups of four isolation boundary; channels within a group are not isolated from each other.
7	Use the documented 900TCK-0001 terminal block and verify terminal torque and polarity.
8	Command and measure every used output, then confirm diagnostics before control-loop release.

Model-Specific FAQ — Part 1

QUESTION	ANSWER
How many outputs does Honeywell 900B16-0202 provide?	900B16-0202 provides sixteen analog current-output channels.
What current range is supported by Honeywell 900B16-0202?	Each channel is user scalable over the documented 0 to 21.0 mA range.
How are channels isolated in Honeywell 900B16-0202?	The outputs are arranged in four isolated groups of four; channels within the same group are not mutually isolated.
What maximum load can Honeywell 900B16-0202 drive?	The module specification lists a maximum output load of 750 ohms.

Model-Specific FAQ — Part 2

QUESTION	ANSWER
How many Honeywell 900B16-0202 modules may use internal 24 V power in one rack?	Honeywell limits the internal 24 V source to two 16-channel analog-output modules per rack.
Can Honeywell 900B16-0202 use an external field supply?	Yes. Select external power and provide a documented 18 to 36 VDC source rated for 700 mA per module.
Which terminal block is used by Honeywell 900B16-0202?	The specification lists the 900TCK-0001 36-position Euro-style terminal block.
What should be tested after replacing Honeywell 900B16-0202?	Verify power selection, polarity, channel scaling, commanded and measured current, load response and module diagnostics for all used channels.

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MODEL	APTER POWER PAGE
05701-a-0302	View 05701-a-0302
05701-a-0325	View 05701-a-0325
05701-a-0361	View 05701-a-0361
05704-a-0123	View 05704-a-0123
05704-a-0135	View 05704-a-0135
10001-a-1	View 10001-a-1
10001-r-1	View 10001-r-1
10002-1-2	View 10002-1-2

MANUFACTURER SOURCE RECORD

ControlEdge HC900 I/O Modules Specifications
Honeywell publication 51-52-03-41, January 2023

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