

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.

BRAND	Honeywell	ORIGIN	USA
MODEL	900B16-0202	HS CODE	8537101190
FAMILY	ControlEdge HC900	SHIP FROM	Xiamen, Fujian, China

MANUFACTURER SOURCE RECORD

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

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Product Overview

SYSTEM FUNCTION

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

TECHNICAL NOTE

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.

Technical Data and Acceptance

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

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.

Acceptance Path

1 IDENTITY

900B16-0202 and rack position are recorded.

2 POWER

Internal/external selection and supply voltage are verified.

3 CHANNEL PROOF

Every used output produces the required current into its load.

4 FUNCTIONAL PROOF

Control-loop response and module diagnostics are accepted.

Applications and Engineering FAQ

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.

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.

FAQ, Related Products and Source

Related Products on Apter Power

QUESTION	ANSWER	MODEL	APTER POWER PAGE
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.	10005-1-1	View 10005-1-1
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.	10006-2-1	View 10006-2-1
Which terminal block is used by Honeywell 900B16-0202?	The specification lists the 900TCK-0001 36-position Euro-style terminal block.	10008-u	View 10008-u
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.	10012-1-2	View 10012-1-2
		10014-1-1	View 10014-1-1
		10014-f-f	View 10014-f-f
		10014-h-i	View 10014-h-i
		10018-e-1	View 10018-e-1

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