

INDUSTRIAL AUTOMATION PRODUCT

140ACO02000

Modicon Quantum 4-Channel 4-20 mA Analog Output Module

Schneider Electric 140ACO02000 is a Modicon Quantum analog output module with four 4-20 mA channels and 12-bit conversion. It uses a documented 12-30 V DC external supply for process-current outputs.

CONTROLLED ENGINEERING COPY

IDENTITY	VERIFIED VALUE
Manufacturer	Schneider Electric
System family	Modicon Quantum
Part number	140ACO02000
Document status	Controlled product and system reference

DOCUMENT SCOPE

Exact article identity, official technical data, host matching, installation checks, applications, precautions and controlled acceptance evidence.

MODEL-SPECIFIC ENGINEERING NOTE

Install 140ACO02000 only in the documented Modicon Quantum position and preserve its exact wiring, interfaces and configuration. After controlled energization, verify diagnostics and generation of four isolated 4-20 mA process outputs from a Modicon Quantum station before service release.

System Role and Architecture

Schneider Electric 140ACO02000 is a Modicon Quantum analog output module with four 4-20 mA channels and 12-bit conversion. It uses a documented 12-30 V DC external supply for process-current outputs.

FUNCTION 1
Four 4-20 mA outputs

FUNCTION 2
12-bit output conversion

FUNCTION 3
12-30 V DC external supply

FUNCTION 4
Online configuration modification

RELATED APTER POWER PAGES

1 Schneider Electric 140ACO13000C

2 Schneider Electric 140AI133010

3 Schneider Electric 140CPU43412

4 Schneider Electric 140DSI35300

5 Schneider Electric 140NOE77100

6 Schneider Electric 990XCP98000

7 Schneider Electric 140XTS00200

8 Schneider Electric 140XBP00600

9 Schneider Electric 140NRP95400

MATCHED SYSTEM COMPONENTS

NO.	DOCUMENTED COMPONENT / ROLE
01	Modicon Quantum
02	Matched Modicon Quantum host or field system
03	Documented power, signal, communication and protective interfaces
04	Approved engineering configuration and acceptance record

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Host identity	Modicon Quantum
Interface role	generation of four isolated 4-20 mA process outputs from a Modicon Quantum station
Field / power context	documented Modicon Quantum installation
Commissioning evidence	Identity, wiring, configuration, diagnostics and controlled response recorded

INSTALLATION AND CONNECTION CHECKS

1 Confirm the complete 140ACO02000 marking and the documented Modicon Quantum 4-Channel 4-20 mA Analog Output Module execution.

2 Place the machine, controller and affected process in the approved maintenance state.

3 Isolate all hazardous energy and prove the safe state before disconnecting hardware.

4 Record the installed position, every terminal or port, and the active engineering configuration.

Technical Specifications

Technical values below are limited to the named product record and directly applicable manufacturer documentation.

PARAMETER	VALUE	PARAMETER	VALUE
Product designation	Analog output module	Bus current required	480 mA
Automation platform	Modicon Quantum	Maximum power dissipation	5.3 W
Analog outputs	4	Channel isolation test	500 V AC at 47-63 Hz or 750 V DC for 1 minute
Output range	4-20 mA	Online configuration modification	Supported
Output resolution	12 bit	Lifecycle status	Discontinued 14 April 2023; service planned through 31
Output data	4 output words	Official replacement	BMXAMO0410
External supply	12-30 V DC		

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ENGINEERING BOUNDARY

Confirm 140ACO02000, its exact Modicon Quantum host, power source, installed position, interfaces, configuration, diagnostics and controlled acceptance evidence before release.

PRE-INSTALLATION CHECKS

- 1

Confirm the complete 140ACO02000 marking and the documented Modicon Quantum 4-Channel 4-20 mA Analog Output Module
- 2

Place the machine, controller and affected process in the approved maintenance state.
- 3

Isolate all hazardous energy and prove the safe state before disconnecting hardware.
- 4

Record the installed position, every terminal or port, and the active engineering configuration.

Applications and Engineering Context

Control-valve command

Generates documented 4-20 mA setpoints for process actuators.

Analog speed reference

Provides controlled current commands to compatible drive interfaces.

Four-loop output replacement

Preserves channel assignments, scaling and external supply wiring.

Output-loop commissioning

Checks each load, polarity and commanded current under control.

TECHNICAL NOTE

Install 140ACO02000 only in the documented Modicon Quantum position and preserve its exact wiring, interfaces and configuration. After controlled energization, verify diagnostics and generation of four isolated 4-20 mA process outputs from a Modicon Quantum station before service release.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	140ACO02000 recorded
Host / carrier	Modicon Quantum
Physical interface	Installed terminals, ports and signal paths matched to the as-found record
Configuration	Approved hardware and engineering configuration restored
Functional proof	Controlled test confirms generation of four isolated 4-20 mA process outputs from a Modicon Quantum station

IMPORTANT NOTICE

Confirm 140ACO02000, its exact Modicon Quantum host, power source, installed position, interfaces, configuration, diagnostics and controlled acceptance evidence before release.

Related Products and Source Record

Brand-qualified Apter Power navigation links are provided for system planning only; manufacturer evidence remains the named source record.

RELATED PRODUCTS ON APTER POWER

1

Schneider Electric 140ACO13000C

View Schneider Electric 140ACO13000C page

2

Schneider Electric 140AII33010

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3

Schneider Electric 140CPU43412

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4

Schneider Electric 140DSI35300

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5

Schneider Electric 140NOE77100

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Schneider Electric 990XCP98000

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Schneider Electric 140XTS00200

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Schneider Electric 140XBP00600

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Schneider Electric 140NRP95400

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MANUFACTURER SOURCE RECORD

Schneider Electric 140ACO02000 product record and Modicon Quantum catalog | Official manufacturer evidence verified 28 September 2026

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RECOMMENDATION SCOPE

These links support product navigation and comparison. Technical values in this document are sourced only from the manufacturer record above.