

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

PRODUCT SNAPSHOT

BRAND

Schneider Electric

FAMILY

Modicon Quantum

PART

140ACO02000

DOCUMENT STATUS

Controlled engineering copy

APTER POWER

WHATSAPP / PHONE

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WEBSITE

www.apterpower.com



PRODUCT OVERVIEW

Schneider Electric 140ACO02000 provides generation of four isolated 4-20 mA process outputs from a Modicon Quantum station in a documented Modicon Quantum installation.

Four 4-20 mA outputs

12-bit output conversion

12-30 V DC external supply

Online configuration modification

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SYSTEM COMPONENTS

DOCUMENTED COMPONENT	ROLE IN SYSTEM
Proximity probe	Matched extension cable
Proximitor Sensor	AISI 4140 target

ENGINEERING CONTEXT

The component remains matched to its documented cabinet position, power source, interfaces and approved engineering configuration. Commissioning restores that architecture and verifies the affected control or communication function under controlled conditions.

TECHNICAL DATA

PARAMETER	VALUE
Product designation	Analog output module
Automation platform	Modicon Quantum
Analog outputs	4
Output range	4-20 mA
Output resolution	12 bit
Output data	4 output words
External supply	12-30 V DC

PARAMETER	VALUE
Bus current required	480 mA
Maximum power dissipation	5.3 W
Channel isolation test	500 V AC at 47-63 Hz or 750 V DC for 1 minute
Online configuration modification	Supported
Lifecycle status	Discontinued 14 April 2023; service planned through 31
Official replacement	BMXAMO0410

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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.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

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.

PRODUCT PRECAUTIONS

1

Confirm the complete 140ACO02000 marking and the documented Modicon Quantum 4-Channel 4-20 mA

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.

5

Verify the exact electrical, interface and environmental limits in the manufacturer evidence.

6

Restore protective earth, shielding, wiring, communications and the approved project or

7

Energize under control and review all device, rack, network and process diagnostics.

8

Complete a controlled functional test of generation of four isolated 4-20 mA process outputs from a Modicon

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ENGINEER FAQ

Q1 How many 4-20 mA outputs are provided by Schneider Electric 140ACO02000?

140ACO02000 provides four analog current-output channels.

Q2 What output resolution is documented for 140ACO02000?

The four output channels use 12-bit conversion.

Q3 Which external supply range is required by 140ACO02000?

Use the documented 12-30 V DC external supply for the output circuits.

Q4 What Quantum bus-current allowance applies to 140ACO02000?

The module requires 480 mA from the Quantum bus.

Q5 What is the maximum power dissipation of 140ACO02000?

The official Quantum catalog lists 5.3 W maximum power dissipation.

Q6 What isolation test is specified between 140ACO02000 channels?

The catalog specifies 500 V AC at 47-63 Hz or 750 V DC for one minute between channels.

Q7 Can the 140ACO02000 configuration be modified online?

Yes. The official Quantum catalog lists online configuration modification as supported.

Q8 How should all four 140ACO02000 loops be accepted after replacement?

Command and measure every 4-20 mA channel under controlled conditions, confirming polarity, load, scaling and diagnostics.

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

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