

140AVO02000

Modicon Quantum 4-Channel Analog Voltage Output Module

Schneider Electric 140AVO02000 is a Modicon Quantum four-channel analog voltage output module with selectable unipolar and bipolar ranges. It provides 12-bit output conversion and a documented

PRODUCT SNAPSHOT

BRAND
Schneider Electric

FAMILY
Modicon Quantum

PART
140AVO02000

DOCUMENT STATUS
Controlled engineering copy

APTER POWER

WHATSAPP / PHONE

+86 180 3023 5313

WEBSITE

www.apterpower.com



PRODUCT OVERVIEW

Schneider Electric 140AVO02000 provides generation of four selectable unipolar or bipolar voltage outputs from a Modicon Quantum station in a documented Modicon Quantum installation.

 Four voltage outputs

 0-5 V, 0-10 V and bipolar ranges

 12-bit output conversion

 Documented master override

RELATED APTER POWER PAGES		
1 Schneider Electric 140CPU43412U	2 Schneider Electric 140CPS22400	3 Schneider Electric 140CPS11100
4 Schneider Electric 140ARI03010	5 Schneider Electric 140ACO13000	6 Schneider Electric 140AMM09000
7 Schneider Electric 140ARI03010C	8 Schneider Electric 140ACO13000C	9 Schneider Electric 140AII33010

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 voltage output module
Automation platform	Modicon Quantum
Analog outputs	4
Output ranges	0-10 V, 0-5 V, +/-10 V and +/-5 V
Output resolution	12 bit
Output data	4 output words
Bus current required	700 mA

PARAMETER	VALUE
Maximum power dissipation	4.5 W
Channel isolation test	500 V AC at 47-63 Hz for 1 minute
Master override	Supported with documented wiring
External override fuse	0.063 A, 250 V, 3AG fast-blow when an external source is
Online configuration modification	Supported
Lifecycle status	Discontinued 31 December 2022; service planned through
Official replacement	BMXAMO0410

RELATED PRODUCT PAGES

1 [Schneider Electric 140CPU43412U](#)

2 [Schneider Electric 140CPS22400](#)

3 [Schneider Electric 140CPS11100](#)

4 [Schneider Electric 140ARI03010](#)

5 [Schneider Electric 140ACO13000](#)

6 [Schneider Electric 140AMM09000](#)

7 [Schneider Electric 140ARI03010C](#)

8 [Schneider Electric 140ACO13000C](#)

9 [Schneider Electric 140AII33010](#)

TECHNICAL NOTE

Install 140AVO02000 only in the documented Modicon Quantum position and preserve its exact wiring, interfaces and configuration. After controlled energization, verify diagnostics and generation of four selectable unipolar or bipolar voltage outputs from a Modicon Quantum station before service release.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Voltage-command output

Generates configured analog references for compatible field equipment.

Bipolar actuator control

Provides signed voltage commands where the validated application requires them.

Master-override installation

Uses the approved external source, impedance and fuse arrangement.

Voltage-loop commissioning

Checks every channel range, polarity, load and forced-output response.

PRODUCT PRECAUTIONS

- 1 Confirm the complete 140AVO02000 marking and the documented Modicon Quantum 4-Channel Analog
- 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 selectable unipolar or bipolar voltage outputs from

RELATED APTER POWER PAGES

1 Schneider Electric 140CPU43412U

2 Schneider Electric 140CPS22400

3 Schneider Electric 140CPS11100

4 Schneider Electric 140ARI03010

5 Schneider Electric 140ACO13000

6 Schneider Electric 140AMM09000

7 Schneider Electric 140ARI03010C

8 Schneider Electric 140ACO13000C

9 Schneider Electric 140AII33010

ENGINEER FAQ

Q1 Which voltage ranges are available on Schneider Electric 140AVO02000?

The module supports 0-10 V, 0-5 V, +/-10 V and +/-5 V output ranges.

Q2 How many analog outputs does 140AVO02000 provide?

140AVO02000 provides four analog voltage-output channels.

Q3 What output resolution is used by 140AVO02000?

The four channels use 12-bit output conversion.

Q4 What Quantum bus current is required for 140AVO02000?

The official catalog specifies 700 mA bus current.

Q5 What is the maximum power dissipation of 140AVO02000?

The official Quantum catalog lists 4.5 W maximum power dissipation.

Q6 Which fuse protects an externally powered 140AVO02000 master override?

Use the documented 0.063 A, 250 V, 3AG fast-blow fuse when an external override source is installed.

Q7 Can 140AVO02000 output configuration be changed online?

Yes. Schneider Electric lists online configuration modification as supported.

Q8 How should the bipolar ranges of 140AVO02000 be commissioned?

Check each signed range, polarity, load and forced-output response before returning the process to service.

RELATED APTER POWER PAGES

1

Schneider Electric 140CPU43412U

2

Schneider Electric 140CPS22400

3

Schneider Electric 140CPS11100

4

Schneider Electric 140ARI03010

5

Schneider Electric 140ACO13000

6

Schneider Electric 140AMM09000

7

Schneider Electric 140ARI03010C

8

Schneider Electric 140ACO13000C

9

Schneider Electric 140AII33010

SOURCE Schneider Electric 140AVO02000 product record and Modicon Quantum catalog | Official manufacturer evidence verified 28 September 2026

+86 180 3023 5313 | sales13@apterpower.com | www.apterpower.com