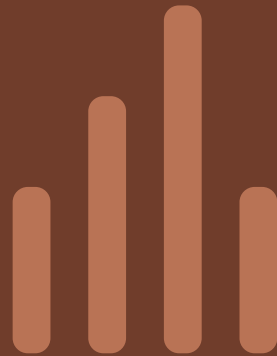


MANUFACTURER-SOURCE TECHNICAL REFERENCE

ABB IMASO11

Product Reference

ABB IMASO11 Analog output module



DOCUMENT SCOPE

Independent Apter Power manual compiled only from the cited ABB manufacturer sources. No product photograph is included.

Product / lookup identity	ABB IMASO11
Reference number	IMASO11
Document basis	Published ABB product records, PDFs, and manuals listed on page 3



Product page

<https://www.apterpower.com/ABB/imaso11>
Apter Power contact

sales13@apterpower.com | +86 180 3023 5313

Product role and published parameters

WHAT IT IS, WHAT IT DOES, AND WHERE IT FITS

ABB IMASO11 is a Harmony rack analog output module with 14 independently configurable output channels. ABB documents 10-bit output conversion, output readback, and configurable output default-state behavior. System context: ABB IMASO11 Analog output module.

Published field	Manufacturer-published value or verified identity note
Analog outputs	14
Current output	4–20 mA
Voltage output	1–5 VDC
Conversion resolution	10-bit
Output accuracy	Voltage: $\leq 0.15\%$; current: $\leq 0.25\%$
Current-output load	750 ohms maximum
Voltage-output load	22 kilohms minimum

System function and signal path

01	Processing: 10-bit digital-to-analog conversion; Output readback; Closed-loop output verification behavior described by ABB; Configurable output default states
02	Held Claims: Do not claim HART support.; Do not claim that readback proves movement or health of the final field device.; Do not transfer the verified 22-kilohm IMASO11 voltage-load value to SPASO11 without exact SPASO11 visual evidence.

Applications, answers, and official sources

- 1 Control-valve current command: Send a configured 4–20 mA command to a compatible receiving device when the project loop design meets the documented load limit.
- 2 Drive or position reference: Provide a supported current or 1–5 VDC reference to engineered drive, positioner, or converter inputs after interface review.
- 3 Recorder and remote-indicator outputs: Transmit supported analog values to compatible high-impedance receiving equipment under the documented voltage-load requirement.
- 4 ASO11 modernization planning: Use ABB's SPASO11/AO02e evolution relationships as engineering inputs for a controlled rack I/O migration.

Frequently asked questions

What is ABB IMASO11?	It is a 14-channel analog output module for ABB Harmony rack I/O architecture.
How many outputs does IMASO11 provide?	ABB documents 14 analog outputs.
Which output signals are supported?	The official instruction lists 4–20 mA current and 1–5 VDC voltage output.
What conversion resolution is documented?	ABB specifies 10-bit output conversion.
What load can the current output drive?	The IMASO11 instruction specifies a maximum 750-ohm load.
What is the IMASO11 voltage-output load requirement?	The exact IMASO11 instruction specifies 22 kilohms minimum. This value must not be copied to SPASO11 without exact SPASO11 verification.

Official ABB sources

IMASO11 Analog Output Module Instruction	https://search.abb.com/library/Download.aspx?DocumentID=WBPEEU1240757A0&LanguageCode=en&DocumentPartId=&Action=Launch
Harmony Rack Mount Termination Devices Data Sheet	https://library.e.abb.com/public/970f33da260c82f5c1256d12005fbec0/WBPEEU260001A1_-_en_Harmony_Rack_Mount_Termination_Devices_Data_Sheet.pdf
NTDI02 Digital I/O Termination Unit Instruction	https://search.abb.com/library/Download.aspx?DocumentID=WBPEEU1260050A0&LanguageCode=en&DocumentPartId=&Action=Launch
Symphony Plus Product Catalog, Revision G	https://library.e.abb.com/public/67f6b20f64d0443da36258e62a597791/2VAA005340%20en%20G%20Symphony%20Plus%20Product%20Catalog.pdf
ABB Users Group – Harmony Rack I/O Evolution	https://library.e.abb.com/public/68e694fd1f5743ba949fbae1859ee3ac/02%20ABB%20Users%20Group%20Anchororage%20Harmony.pdf