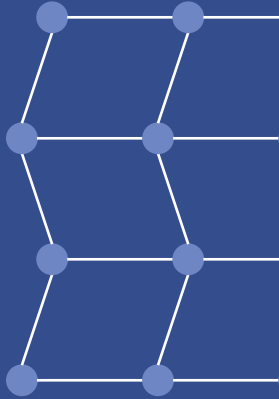


MANUFACTURER-SOURCE TECHNICAL REFERENCE

ABB IMDSO04

Product Reference

ABB IMDSO04 16-channel, 24 VDC digital slave 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 IMDSO04
Reference number	IMDSO04
Document basis	Published ABB product records, PDFs, and manuals listed on page 3



Product page

<https://www.apterpower.com/ABB/imdso04>
Apter Power contact

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Product role and published parameters

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

ABB IMDSO04 is a legacy sixteen-channel digital slave output module for 24 VDC control signals in the INFI 90 and Harmony Rack installed-base evolution path. The module receives controller output commands and switches discrete field-control circuits for two-state equipment functions. System context: ABB IMDSO04 16-channel, 24 VDC digital slave output module.

Published field	Manufacturer-published value or verified identity note
Product type	Digital slave output module
Channels	16 digital outputs
Documented output class	24 VDC
Function code	FC83
ABB evolution mapping	SPDSO14 replacement path; distinct product, not alias
DSM05 replacement note	Reverse output-wire polarity; DLS is not supported in this replacement case
Exact output current / topology / protection / fail state	HOLD – do not copy SPDSO14 or DO01/DO02 ratings

System function and signal path

01	Processing: Discrete output execution with ABB-documented FC83; exact electrical topology and diagnostics remain HOLD.
02	Boundary: The DSM05 polarity and DLS limitation is scenario-specific and must not be generalized to every IMDSO04 installation.

Applications, answers, and official sources

1 Relay command outputs: Commands verified 24 VDC interposing-relay circuits in legacy control panels.

2 Alarm annunciation: Drives approved discrete indication or annunciator interfaces under controller logic.

3 Solenoid and actuator commands: Provides two-state control through correctly rated project interface hardware.

4 Engineered output migration: Supports controlled migration assessment to SPDS014 with termination, load, and polarity verification.

Frequently asked questions

What is ABB IMDS004?	It is a legacy sixteen-channel digital slave output module.
Which output voltage is officially documented?	ABB lists 24 VDC.
How many outputs does it have?	Sixteen digital outputs.
Which function code is documented?	ABB identifies FC83.
What does it do in the system?	It executes discrete controller commands for verified on/off field-control circuits.
What is ABB's replacement path?	ABB maps IMDS004 to SPDS014 for an engineered Harmony Rack replacement.

Official ABB sources

ABB Harmony evolution mapping presentation	https://library.e.abb.com/public/68e694fd1f5743ba949fbae1859ee3ac/02%20ABB%20Users%20Group%20Anchorage%20Harmony.pdf
ABB Triple Play spare parts and services brochure 9AKK107046A2102	https://library.e.abb.com/public/ce7ff1c4bdac451085597330b9fba063/9AKK107046A2102%20C%20Triple%20Play%20brochure.pdf
ABB Harmony Rack I/O Product Overview WPPEEUS240011B1	https://library.e.abb.com/public/429d55ddf7c18f3ec1256c95006f67bc/WBPEEUS240011B1_-_en_Harmony_Rack_I_O_Product_Overview.pdf