

MANUFACTURER-SOURCE TECHNICAL REFERENCE

ABB IMDSO14

Product Reference

ABB IMDSO14 Legacy 16-Channel 24 VDC Digital 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 IMDSO14
Reference number	IMDSO14
Document basis	Published ABB product records, PDFs, and manuals listed on page 3



Product page

<https://www.apterpower.com/ABB/imdsol4>
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 IMDSO14 is a legacy Harmony Rack/INFI 90 digital output module. The module translates controller discrete commands into field output states for compatible on/off circuits. System context: ABB IMDSO14 Legacy 16-Channel 24 VDC Digital Output Module.

Published field	Manufacturer-published value or verified identity note
Function	Digital output module
Output points	16
Verified signal range	24 VDC
ABB HR replacement	SPDSO14
Evolution function-code reference	FC83 in ABB's Harmony evolution table
Per-channel current / isolation / load	HOLD – exact IMDSO14 ABB evidence not found
Termination unit / cable	HOLD – verify exact installed ABB/project configuration

System function and signal path

01	System Inputs: Sixteen controller discrete output commands through the installed Harmony Rack/INFI 90 I/O architecture.
02	Processing: Switches the corresponding 24 VDC output points; exact circuit topology and diagnostics remain HOLD.
03	Outputs: Sixteen documented 24 VDC discrete outputs.
04	Communications: Harmony Rack I/O architecture; no exact timing or bus-rate claim is made here.

Applications, answers, and official sources

1 Legacy discrete actuator control: Operates project-defined 24 VDC on/off circuits from controller commands.

2 Interlock and permissive outputs: Provides discrete output states used in approved plant logic and field circuits.

3 Alarm or indication command: Drives compatible 24 VDC annunciation or indication circuits under the original design.

4 HR modernization planning: Supports controlled migration to SPDSOI4 after exact wiring, polarity, termination, and logic review.

Frequently asked questions

What is ABB IMDSOI4?	It is a legacy digital output module for ABB Bailey INFI 90/Harmony Rack systems.
How many outputs are documented?	Sixteen.
Which signal voltage is verified?	24 VDC.
Which HR replacement does ABB name?	SPDSOI4.
Is IMDSOI4 the same as SPDSOI4?	No. They are distinct legacy and successor model identities.
May SPDSOI4's 48 VDC rating be assigned to IMDSOI4?	No. Exact IMDSOI4 evidence reviewed here supports 24 VDC only.

Official ABB sources

ABB Harmony Rack I/O Product Overview	https://library.e.abb.com/public/429d55ddf7c18f3ec1256c95006f67bc/WBPEEUS240011BI_-_en_Harmony_Rack_I_O_Product_Overview.pdf
ABB Harmony lifecycle and evolution presentation	https://library.e.abb.com/public/68e694fd1f5743ba949fbae1859ee3ac/02%20ABB%20Users%20Group%20Anchor%20Harmony.pdf