

MANUFACTURER-SOURCE TECHNICAL REFERENCE

ABB IMDSM05

IMDSM05 Evidence-Bounded Product Information Manual

ABB IMDSM05 16-circuit, 24 VDC selectable digital input/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 IMDSM05
Reference number	IMDSM05
Document basis	Published ABB product records, PDFs, and manuals listed on page 3



Product page

<https://www.apterpower.com/ABB/imdsm05>
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Workflow and system context

ABB IMDSM05 is a legacy sixteen-circuit digital input/output module for 24 VDC signals in the INFI 90 and Harmony Rack installed-base evolution path. The module can bring discrete field states into the controller and send discrete commands back to field-control circuits, according to the configured group roles.

01	Sixteen 24 VDC discrete circuits configured as inputs or outputs in groups of eight.
02	Acquires on/off field states for controller logic; exact thresholds and timing remain HOLD.
03	Commands on/off field circuits; exact current, topology, and protection remain HOLD.
04	Input and output duties split to different ABB successors; mixed or DLS use has no direct replacement.

Published context and boundaries

01	Do not merge IMDSM05 with NDSM05; NDSM05 is a distinct Apter record ID 773483.
02	Do not merge IMDSM05 with IMDSM04 or SPDSM04; those are pulse-input products, not mixed digital I/O aliases.
03	Do not claim a direct replacement for mixed input/output or DLS installations.

Verification and release checks

01	Verify the full IMDSM05 nameplate and revision; do not confuse it with NDSM05, IMDSM04, or SPDSM04.
02	Record whether each group of eight is configured as input or output before disturbing hardware or wiring.
03	Treat any mixed input/output installation as having no direct ABB replacement.
04	Treat any digital logic station installation as having no direct ABB replacement.
05	For migration, follow ABB's dipshunt-change and field-wire-polarity-reversal requirements; do not improvise the wiring conversion.
06	Confirm the exact termination unit, cable, dipshunt, commons, polarity, fusing, and field supply from approved drawings.

Identity and release controls

Verification Status	Verified Exact Model Core Identity And Conditional Evolution Mapping
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Official ABB sources

ABB Harmony evolution mapping presentation	https://library.e.abb.com/public/68e694fd1f5743ba949fbae1859ee3ac/02%20ABB%20Users%20Group%20Anchorage%20Harmony.pdf
ABB Harmony Rack I/O Product Overview WBPEEUS240011B1	https://library.e.abb.com/public/429d55ddf7c18f3ec1256c95006f67bc/WBPEEUS240011B1_-_en_Harmony_Rack_I_O_Product_Overview.pdf