

MANUFACTURER-SOURCE TECHNICAL REFERENCE

ABB IMASI23

Product Reference

ABB IMASI23 Harmony rack analog input module

DOCUMENT SCOPE

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

Product / lookup identity	ABB IMASI23
Reference number	IMASI23
Document basis	Published ABB product records, PDFs, and manuals listed on page 3



Product page

<https://www.apterpower.com/ABB/ABB-Bailey-Infi-90-and-Net-90/Infi-90/imasi23>
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Product role and published parameters

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

ABB IMASI23 is a Harmony rack analog input module identified in ABB rack I/O documentation for mixed process-signal acquisition. The module provides as many as 16 independently handled input channels. System context: ABB IMASI23 Harmony rack analog input module.

Published field	Manufacturer-published value or verified identity note
Input channels	Up to 16
Current input	4–20 mA
Voltage inputs	0–5 VDC, 1–5 VDC, 0–10 VDC
Millivolt input	0–100 mVDC listed in the rack I/O overview
Temperature inputs	Thermocouple and RTD
Conversion architecture	24-bit conversion with dedicated channel conversion described by the ABB instruction covering IMASI23/SPASI23 versions
Formal lifecycle phase	HOLD – no exact ABB lifecycle phase notice located

System function and signal path

01	Input Classes: 4–20 mA current; 0–5 VDC, 1–5 VDC, and 0–10 VDC; millivolt; thermocouple; RTD
02	Processing: Channel isolation; Analog-to-digital conversion; Input processing and calibration; Engineering-unit conversion; Cold-junction compensation for applicable thermocouple use; Lead-wire resistance adjustment for applicable RTD use
03	Held Claims: Do not infer HART support.; Do not publish a channel update time unless verified for exact IMASI23 hardware.; Do not transplant current AI16e or AI16ev power, size, or certification data to IMASI23.

Applications, answers, and official sources

1 Process-transmitter acquisition: Collect 4–20 mA pressure, flow, level, or other transmitter signals where the engineered rack design assigns those loops to IMASI23.

2 Temperature measurement: Acquire thermocouple or RTD measurements with the configured input type, cold-junction arrangement, and lead-wire design confirmed from ABB and site documentation.

3 Voltage and millivolt monitoring: Interface supported voltage or millivolt signals in legacy INFI 90/Harmony rack I/O systems after range and grounding review.

4 Planned rack-I/O modernization: Use the documented IMASI23-to-SPASI23 or ASI23-to-AI16ev relationship as an engineering starting point, not as permission for an unreviewed swap.

Frequently asked questions

What is ABB IMASI23?	It is an ABB Harmony rack analog input module for acquiring multiple analog field-signal types in INFI 90/Harmony rack I/O architecture.
How many inputs does IMASI23 support?	ABB instruction material for the IMASI23/SPASI23 versions identifies up to 16 input channels.
Which current signal is officially listed?	The ABB rack I/O overview lists 4–20 mA.
Which voltage signals are officially listed?	ABB lists 0–5 VDC, 1–5 VDC, and 0–10 VDC for IMASI23 in the rack I/O overview.
Can IMASI23 accept thermocouples and RTDs?	Yes. ABB lists both thermocouple and RTD input capability; the exact sensor type and wiring must match the configured channel and instruction.
Is IMASI23 a 24-bit module?	The ABB instruction that covers the IMASI23 and SPASI23 versions describes 24-bit conversion architecture.

Official ABB sources

Harmony Rack I/O Product Overview	https://library.e.abb.com/public/429d55ddf7c18f3ec1256c95006f67bc/WBPEEUS240011B1_-_en_Harmony_Rack_I_O_Product_Overview.pdf
SPASI23 Analog Input Module Instruction	https://search.abb.com/library/Download.aspx?DocumentID=2VAA001604&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 Symphony Plus Hardware Selector – AI16ev	https://symphonyplushardwareselector.automation.abb.com/product/ai16ev
Symphony Plus Life Cycle Updates / ASI23 Field Alert	https://library.e.abb.com/public/0e820d314f9e491380a1bfbf0e7073d1/04_Symphony%20Plus%20life%20cycle%20updates-Jim%20Day.pdf
ABB Repair-a-thon Qualifying Repairs List	https://library.e.abb.com/public/a3b4957be8ab48d98f29473a85a2f0d6/ABB%20Repair-a-thon%20qualifying%20repairs%20list.pdf