APTER POWER
INDUSTRIAL AUTOMATION

MANUFACTURER-SOURCE TECHNICAL REFERENCE

ABB IMASI13

Product Reference

ABB IMASI13 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 IMASI13
Reference number	IMASI13
Document basis	Published ABB product records, PDFs, and manuals listed on page 3

Product page

https://www.apterpower.com/ABB/imasi13

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Product role and published parameters

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

ABB IMASI13 is a 16-channel analog input module for the INFI 90/Harmony rack I/O architecture. ABB documents 24-bit analog-to-digital conversion, channel isolation, open-input detection, automatic factory calibration and recalibration, engineering-unit conversion, and temperature-measurement compensation functions. System context: ABB IMASI13 Analog input module.

Published field	Manufacturer-published value or verified identity note
Input channels	16
A/D resolution	24-bit architecture
Input classes	Current, high-level voltage, millivolt, thermocouple, and RTD
Channel configuration	Input type and resolution independently selectable by channel
Diagnostics and processing	Channel isolation, open-input detection, calibration/recalibration, engineering-unit conversion, and applicable cold-junction compensation
Primary termination arrangement	NTAI06 through NKAS01 or NKAS11 cable arrangements
System-powered two-wire current termination option	NTBMJ2 supports 16 analog inputs for two-wire 4-20 mA devices with IMASI13

System function and signal path

01	Input Classes: 4-20 mA and other instruction-defined current use; High-level DC voltage; Millivolt; Thermocouple; RTD
02	Processing: 24-bit A/D conversion; Independent channel type and resolution selection; Channel isolation and open-input detection; Automatic factory calibration and recalibration; Engineering-unit conversion; Cold-junction and lead-wire compensation where applicable
03	Held Claims: Do not infer every SPASI23 catalog range for IMASI13 without the IMASI13 instruction table.; Do not claim HART capability.; Do not treat NTBMJ2 as a universal termination for every IMASI13 signal type.

Applications, answers, and official sources

1. Two-wire process transmitters: Acquire engineered 4-20 mA loops, including the NTBMJ2 system-powered arrangement when that exact ABB topology is specified.
2. Thermocouple and RTD measurement: Process supported temperature sensors with the correct sensor curve, wiring, cold-junction, and lead-resistance configuration.
3. Voltage and millivolt acquisition: Digitize supported high-level and low-level voltage signals in Harmony rack applications after grounding and isolation review.
4. IMASI03 migration: Replace an IMASI03 only through ABB's documented IMASI13 procedure and the project's management-of-change controls.

Frequently asked questions

What is ABB IMASI13?	It is a 16-channel universal analog input module for ABB INFI 90/Harmony rack I/O systems.
How many channels does IMASI13 provide?	ABB identifies 16 analog input channels.
What resolution is documented?	The ABB instruction describes 24-bit conversion architecture.
Which signal families can IMASI13 process?	ABB documents current, high-level voltage, millivolt, thermocouple, and RTD input functions.
Are channel types independently selectable?	Yes. ABB describes independent channel input-type and resolution selection.
Does IMASI13 provide channel isolation and open-input detection?	Yes, these functions are described in the ABB instruction.

Official ABB sources

IMASI13 Analog Input Module Instruction	https://search.abb.com/library/Download.aspx?DocumentID=WBPEEUI240766B0&LanguageCode=en&DocumentPartId=&Action=Launch
Harmony Rack Mount Termination Devices Data Sheet	https://library.e.abb.com/public/970f33da260c82f5c1256d12005fbec0/WBPEEUD260001A1_-_en_Harmony_Rack_Mount_Termination_Devices_Data_Sheet.pdf
ABB Repair-a-thon Qualifying Repairs List	https://library.e.abb.com/public/a3b4957be8ab48d98f29473a85a2f0d6/ABB%20Repair-a-thon%20qualifying%20repairs%20list.pdf
Symphony Plus Product Catalog, Revision G	https://library.e.abb.com/public/67f6b20f64d0443da36258e62a597791/2VAA005340%20en%20G%20Symphony%20Plus%20Product%20Catalog.pdf