

MANUFACTURER-SOURCE TECHNICAL REFERENCE

ABB IMASI03

Product Reference

ABB IMASI03 Universal Analog Input Slave Module

DOCUMENT SCOPE

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

Product / lookup identity	ABB IMASI03
Reference number	IMASI03
Document basis	Published ABB product records, PDFs, and manuals listed on page 3



Product page

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Product role and published parameters

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

ABB IMASI03 is an INFI 90 Universal Analog Input Slave Module designed to acquire up to 16 field inputs. The instruction describes programmable conversion resolution from 16 through 24 bits, channel isolation, and open-input detection. System context: ABB IMASI03 Universal Analog Input Slave Module.

Published field	Manufacturer-published value or verified identity note
Input channels	Up to 16
Selectable conversion resolution	16 through 24 bits
Current input	4–20 mA
High-level voltage span	Documented high-level input within –10 to +10 VDC
Millivolt span	Documented millivolt input within –100 to +100 mV
Temperature inputs	Thermocouple and three-wire RTD types defined in the ABB instruction
Processor communication	IMMFP01, IMMFP02, or IMMFP03 over the slave expander bus

System function and signal path

01	Input Classes: 4–20 mA current; High-level DC voltage; Millivolt; Thermocouple types E, J, K, L, N, R, S, T, U, Chinese E, and Chinese S as documented; Three-wire 10-ohm, 100-ohm, 120-ohm, and 53-ohm RTD characteristics as documented
02	Processing: Programmable 16-to-24-bit conversion; Channel isolation; Open-input detection; Slave-expander-bus transfer to the multifunction processor
03	Held Claims: Do not claim direct compatibility with modern controllers without an ABB migration design.; Do not call IMASI03 a drop-in replacement; ABB identifies modifications.; Do not infer SPASI23 power, accuracy, or temperature data for IMASI03.

Applications, answers, and official sources

1 Legacy process-transmitter inputs: Acquire engineered 4–20 mA transmitter loops in an installed INFI 90 slave I/O system.

2 Thermocouple and RTD monitoring: Measure supported temperature sensors with the documented sensor characteristic, wiring, and compensation configuration.

3 Voltage and millivolt acquisition: Digitize supported high-level or low-level voltage signals after isolation, grounding, and range review.

4 Controlled legacy migration: Use ABB's IMASI03-to-IMASI13 procedure or ASI evolution mapping as an engineering basis for a planned upgrade.

Frequently asked questions

What is ABB IMASI03?	It is an INFI 90 Universal Analog Input Slave Module for as many as 16 analog field inputs.
How many channels does IMASI03 support?	ABB documents up to 16 channels.
What resolution can be configured?	The ABB instruction documents selectable conversion resolution from 16 through 24 bits.
Does IMASI03 accept 4–20 mA?	Yes. 4–20 mA is included in the official signal set.
Can IMASI03 process thermocouples and RTDs?	Yes. ABB documents multiple thermocouple and three-wire RTD characteristics; exact selection and wiring are required.
Which processors communicate with IMASI03?	The module instruction identifies IMMFP01, IMMFP02, and IMMFP03 over the slave expander bus.

Official ABB sources

Universal Analog Input Slave Module IMASI03 Instruction	https://search.abb.com/library/Download.aspx?DocumentID=I-E96-301B&LanguageCode=en&DocumentPartId=&Action=Launch
IMASI13 Analog Input Module Instruction	https://search.abb.com/library/Download.aspx?DocumentID=WBPEEU1240766B0&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 Repair-a-thon Qualifying Repairs List	https://library.e.abb.com/public/a3b4957be8ab48d98f29473a85a2f0d6/ABB%20Repair-a-thon%20qualifying%20repairs%20list.pdf