

APTER POWER PRODUCT GUIDE

IMASI03

Universal Analog Input Slave Module

ABB IMASI03 is a universal analog input slave module that acquires isolated process signals for an INFI 90 multifunction processor. It accepts electrical and temperature-sensor inputs through the matched termination hardware.

Manufacturer	ABB
Model	IMASI03
Product type	Universal Analog Input Slave Module
Product family	INFI 90 / Harmony Rack I/O
Country	Sweden
HS code	8537101190
Shipping origin	Xiamen, Fujian, China

APTER POWER SALES TEAM

INDUSTRIAL AUTOMATION PRODUCT SUPPORT

Three interface paths, one controlled configuration.

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SCAN FOR PRODUCT & QUOTE

1. Product overview and identity

- Acquires mixed analog field signals
- Transfers converted values over the slave expander bus
- Applies channel-specific signal conditioning
- Supports open-input and module-status diagnostics

Model configuration

Complete model	IMASI03
Product type	Universal Analog Input Slave Module
System family	INFI 90 / Harmony Rack I/O

2. Technical specifications

Input channels	16
A/D resolution	16, 18, 20, 22 or 24 bit
Current input	4-20 mA
High-level voltage span	-10 to +10 VDC
Millivolt span	-100 to +100 mV
Thermocouple types	E, J, K, L, N, R, S, T, U; Chinese E; Chinese S
RTD wiring	3-wire
Module supply current at +5 VDC	300 mA
Module supply current at +15 VDC	130 mA
Module supply current at -15 VDC	35 mA

3. Functions, applications and components

Thermocouple temperature acquisition

Acquires mixed analog field signals

Three-wire RTD measurement

Transfers converted values over the slave expander bus

Process current-loop monitoring

Applies channel-specific signal conditioning

Low-level millivolt sensing

Supports open-input and module-status diagnostics

Associated system components

- IMMFP01/02/03 multifunction processor
- NTAI06 termination unit
- NIAI05 termination modules
- NKAS termination cables

4. Engineering FAQ and source record

Which termination hardware works with IMASI03?

Use one NTAI06 termination unit or two NIAI05 termination modules with the applicable NKAS cable arrangement.

How is the slave address set on IMASI03?

Use SW1 and keep its normal-operation contacts in the manual-defined positions while assigning the six-bit bus address.

Can IMASI03 accept thermocouples?

Yes. Configure the channel input family, cold-junction treatment and function block for the selected thermocouple type.

How should a three-wire RTD be connected to IMASI03?

Use the manual-defined resistance jumper setting and land the three leads on the matched termination hardware.

Official source

ABB Symphony Harmony OEM repair catalog (exact IMASI03 model listing)

<https://library.e.abb.com/public/0dbf939ea74d4b07b739fe0d57c4d715/Kickstart%202025%204HZG000076%20Rev%20A.pdf>

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