

MANUFACTURER-SOURCE TECHNICAL REFERENCE

ABB IMASM03

IMASM03 Evidence-Bounded Product Information Manual

ABB IMASM03 IMASM03 RTD Analog 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 IMASM03
Reference number	IMASM03
Document basis	Published ABB product records, PDFs, and manuals listed on page 3



Product page

<https://www.apterpower.com/ABB/imasm03>

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Workflow and system context

ABB IMASM03 is an INFI 90 analog slave input module for eight RTD measurements. The documented input arrangement accepts up to eight three-wire 100-ohm RTDs through NIAI03 termination-module wiring; NTAI04 is documented as an alternative RTD termination-unit arrangement.

01	System Inputs: Up to eight three-wire 100-ohm RTD resistance signals through the verified termination arrangement.
02	Processing: Acquires RTD channel signals as the slave I/O member; engineering-unit conversion and strategy processing are performed by the IMAMM03 master/configured control system.
03	Outputs: Channel data and status to the IMAMM03 over the slave expander bus; no field analog outputs are documented for IMASM03.
04	Communications: Dedicated slave expander bus to the IMAMM03 analog master.
05	Boundary: Do not describe IMASM03 as a universal current/voltage/thermocouple module and do not assign IMAMM03's up-to-64 aggregate capacity to one IMASM03 module.

Published context and boundaries

01	Verify the exact IMASM03 nameplate/revision and its existing backend records before any create action.
02	Do not merge IMASM03 with IMAMM03, IMASM01/02/04, NASM03, or service prefixes P/Y/R.
03	Confirm NIAI03 or NTAI04 termination, RTD wiring, calibration method, and master configuration from approved project documentation.

Verification and release checks

01	Verify the exact IMASM03 nameplate, revision, and backend duplicate status before creation or editing.
02	Back up IMASM03 channel assignments, RTD type/curve, range, scaling, alarms, and exception settings before service.
03	Confirm NIAI03 versus NTAI04, cable, channel numbering, three-wire lead compensation, shield, grounding, and polarity from approved drawings.
04	Do not connect current, voltage, or thermocouple signals to an IMASM03 RTD channel.
05	Use NIAC03 only according to the official calibration procedure and preserve calibration records.
06	Loop-check all used RTDs after replacement and verify open/short diagnostics, engineering units, alarm limits, and trend direction.

Identity and release controls

Verification Status	VERIFIED_EXACT_MODEL_EIGHT_INPUT_RTD_SLAVE_FUNCTION
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Official ABB sources

ABB Industrial Automation Spare Parts – Treasure Hunt 2020	https://library.e.abb.com/public/6250fe4dc0404c47b0f5247950fadbe7/Treasure_Hunt_2020.pdf
ABB Spring Savings Event 2020	https://library.e.abb.com/public/fbf2689185024ec689e70ebb6a3637d4/Spring%20Savings%20Event%202020.pdf