

ABB ROBOTS

Product Data Sheet

3HAC031851-001/05

smb serial measurement board

FUNCTION	FAMILY	ORIGIN	WEIGHT
smb serial measurement board	ABB Robots	Sweden	0.36 kg

ABB Robots 3HAC031851-001/05 is a smb serial measurement board for the ABB Robots. The values below are limited to the exact documented article.

01

VERIFIED TECHNICAL DATA

Exact Article Code	3HAC031851-001/05
Product Family	ABB Robots
Component Type	Smb Serial Measurement Board
Assembly Class	ABB PCB assembly
System Interface	ABB Robots control interface
Control Supply	Documented rack control supply
Connector Interface	Keyed ABB board connectors
Installation Format	Plug-in control board
Signal Domain	Control and diagnostic signals
Service Position	Documented rack slot

Configuration Basis	Installed ABB hardware list
Replacement Basis	Exact article and board revision
Protective Check	ESD and protective-earth control
Commissioning Check	Power-up diagnostics and function test
Maintenance Identity	3HAC031851-001/05 controlled service identity

- Control chemical dosing with Smb Serial process control: At the control layer of the metering pumps and contact tanks, 3HAC031851-001/05 operates in its approved product-family role as a smb serial measurement board. During dose-setpoint correction, the system uses this function to match reagent flow to the measured process load, helping it keep treatment chemistry inside its operating target.
- Align order sorting with Smb Serial process control: As part of the scanners, diverters and destination lanes, 3HAC031851-001/05 performs its assigned control role as a smb serial measurement board. During priority order, the system uses this function to apply the current order priority to the routing decision, helping it complete the order path in the intended sequence.
- Synchronize recipe mixing with Smb Serial process control: Inside the mixers and ingredient skids, 3HAC031851-001/05 provides its specified system function as a smb serial measurement board. During recipe changeover, the system uses this function to sequence material transfers and equipment permissives, helping it preserve the verified batch state.

Match 3HAC031851-001/05 to the installed ABB Robots, complete wiring, mating hardware, revision and approved configuration. A similar article number does not establish direct interchangeability.

[ABB ABB Robots documentation](#)

<https://new.abb.com/control-systems>

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