

ABB AC500 S500 I/O

Product Data Sheet

1SAP250000R0001 AX522

eight-channel analog I/O module

FUNCTION eight-channel analog I/O module	FAMILY ABB AC500 S500 I/O	ORIGIN Switzerland	WEIGHT 0.30 kg
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ABB Advant AC500 1SAP250000R0001 AX522 is a eight-channel analog I/O module for the ABB AC500 S500 I/O. The values below are limited to the exact documented article.

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VERIFIED TECHNICAL DATA

Exact Article Code	1SAP250000R0001 AX522
Product Class	Eight-Channel Analog I/O Module
Product Family	ABB AC500 S500 I/O
Analog Inputs	8
Analog Outputs	8 (Analog Outputs)
Input Ranges	Voltage and current
Output Ranges	0 to 10 V / 0 to 20 mA
Resolution	12 bit
Supply Voltage	24 V DC
Isolation	Field to system bus

Diagnostics	Channel status
Mounting	DIN rail
System Bus	S500 I/O bus

- Govern gas treatment during process upset process control: During operation of the separators, contactors and regeneration skids, 1SAP250000R0001 AX522 provides its specified system function as a eight-channel analog I/O module. During process upset, the system uses this function to stabilize vessel and regeneration conditions, helping it restore product specification after the disturbance.
- Manage clean-in-place transfer with Eight Channel: During operation of the CIP supply and return headers, 1SAP250000R0001 AX522 operates in its approved product-family role as a eight-channel analog I/O module. During sanitation transition, the system uses this function to coordinate valve paths and pump availability, helping it complete sanitation without cross-routing product.
- Monitor cooling-water circulation with Eight Channel: During operation of the circulating pumps and heat exchangers, 1SAP250000R0001 AX522 supports the configured automation role as a eight-channel analog I/O module. During controlled shutdown, the system uses this function to sequence redundant equipment around the operating unit, helping it keep heat rejection available to the process.

Match 1SAP250000R0001 AX522 to the installed ABB AC500 S500 I/O, complete wiring, mating hardware, revision and approved configuration. A similar article number does not establish direct interchangeability.

[ABB official product documentation and manufacturer catalog](#)