KJ3221X1-BA1 12P2531X102

Emerson / DeltaV M-series I/O card

Emerson KJ3221X1-BA1 12P2531X102 is a DeltaV M-series I/O card offered by its complete card and part-number markings.

Product identity and system role

The KJ3221X1-BA1 12P2531X102 card belongs to a modular DeltaV I/O installation. Its physical card marking and part number identify the offered hardware; field-signal role and electrical limits must follow the actual item label and the installed termination assembly.

DeltaV M-series Traditional I/O uses separate I/O cards and field termination blocks for analog and discrete signals. The controller assigns channels, engineering units and diagnostics through the configured project. The bare card marking alone does not identify which termination variant is supplied with this offer.

Verified technical characteristics

Product family	DeltaV M-series Traditional I/O
Card marking	KJ3221X1-BA1
Part number	12P2531X102
Host architecture	Modular DeltaV I/O
Configuration dependency	Installed carrier, termination block and host release

Engineering context

DeltaV I/O maintenance

Restore an exact-marking card in the engineered M-series I/O position after confirming the physical signal role.

Control cabinet integration

Fit the card to the approved carrier and termination arrangement used by the installed DeltaV node.

Field signal mapping

Retain the original point assignment and signal type defined in the approved control project.

Service verification

Compare controller recognition and affected point behavior with the pre-service baseline.

Configuration and verification

Match the complete marking: Compare KJ3221X1-BA1 12P2531X102 with the installed label, part number and any revision.

Preserve the configuration: Record the existing channel assignment, host release and termination arrangement.

Review the field connection: Check the I/O wiring and the approved circuit drawing before transfer.

Protect the process: Place affected loops in their approved safe state and isolate power as required.

Selected engineering questions

How should the installed I/O channel map be preserved when replacing KJ3221X1-BA1 12P2531X102?
Export or record each configured point and termination assignment, then compare the restored mapping with the project and loop drawings.

What could cause a healthy I/O card to remain offline after fitting KJ3221X1-BA1 12P2531X102?
Check host compatibility, carrier connection, power, module recognition and the control-system diagnostic record before attributing the fault to the card.

How should field wiring be checked before commissioning KJ3221X1-BA1 12P2531X102?
Compare conductor identification, polarity or commons, shielding and terminal assignment with the approved installation drawing.

Can KJ3221X1-BA1 12P2531X102 be exchanged with a visually similar DeltaV card?
Physical fit is insufficient. Match the complete order marking, card role, termination hardware, host release and project configuration.

Which records help diagnose a changed reading or command after fitting KJ3221X1-BA1 12P2531X102?
Compare the pre-service value, channel configuration, wiring test, module diagnostics and field-device response at a controlled operating point.

How should redundancy be reviewed for KJ3221X1-BA1 12P2531X102?
Check whether the actual installed assembly is configured as a redundant pair and test the approved failover path; a redundant catalog reference alone is insufficient.

What acceptance test is appropriate after installing KJ3221X1-BA1 12P2531X102?
Exercise or simulate affected points under the site procedure and verify expected controller indication, field response and alarms.

What should be included in the engineering handover for KJ3221X1-BA1 12P2531X102?
Record the full physical marking, revision, installed position, terminal assignment, changed configuration and post-service test results.

Source and application boundary

Emerson DeltaV M-series Traditional I/O Product Data Sheet, September 2023.

M-series system architecture is confirmed; an exact electrical function for the offered 12P2531X102 card is not assigned from adjacent part-number variants.

Related product references

Separate product listings for project review; confirm each order code and system fit independently.

Emerson KJ1501X1-BC1 12P2186X032 VE5008	Emerson KJ2003X1-BB1 12P3439X012
Emerson KJ2003X1-BB1 12P3439X012 VE3006	Emerson KJ3002X1-BA1 12P0680X072 VE4003S2B2
Emerson KJ3002X1-BF1 12P1732X082 VE4003S6B1	Emerson KJ3203X1-BA1 12P3270X042 VE4001S2T2B4
Emerson KJ3221X1-BA1 12P2531X102 VE4035S2B1	Emerson KJ3222X1-BA1 12P2532X072 VE4033S2B1

Apter Power | Technical enquiry

sales13@apterpower.com | +86 18030235313

Send the complete model and installed-system details when requesting a quotation.