KJ3221X1-BA1 12P2531X122 VE4003S2B2

Emerson / DeltaV Series 2 HART analog output card

Emerson KJ3221X1-BA1 12P2531X122 VE4003S2B2 is offered as a DeltaV Series 2 HART analog output card, based on the photographed KJ3221X1-BA1 / 12P2531X122 nameplate.

Product identity and system role

The photographed card is marked AOUT HART SERIES-2, identifying its physical I/O role as analog output with HART. In a configured DeltaV system, an analog output card sends commanded 4–20 mA signals to suitable field devices while HART communication supports device-level information on the loop.

The card label shows KJ3221X1-BA1, PN 12P2531X122 and revision R. The additional supplied string VE4003S2B2 is associated with an analog-input assembly in Emerson catalog material. It is retained as an ordering reference here but is not used to assign input-card electrical characteristics to the photographed output card.

Verified technical characteristics

Physical card identity	KJ3221X1-BA1
Card part number	12P2531X122
Nameplate function	AOUT HART SERIES-2
Analog signal family	4–20 mA output
Communication	HART
Identified revision	R on photographed unit
Nameplate manufacturer	Fisher-Rosemount Systems
Additional supplied reference	VE4003S2B2; requires order-code reconciliation

Engineering context

Process control outputs

Drive configured 4–20 mA control signals to suitable valve positioners, converters or other analog-input field devices.

HART device communication

Use the loop for supported HART access to a paired field instrument when enabled by the installed DeltaV configuration.

Series 2 I/O restoration

Replace a matching Series 2 analog-output card while preserving channel assignments and termination hardware.

Loop diagnostics

Compare commanded output, measured loop current and field-device response during controlled troubleshooting.

Configuration and verification

Check the physical label: Match KJ3221X1-BA1 and 12P2531X122 on the offered output card.

Reconcile the extra code: Clarify VE4003S2B2 with the quotation because its catalog function differs from the photographed card.

Record channel use: Preserve the existing output-channel map and HART device identities.

Review termination: Compare the output termination block and cable connections before transfer.

Selected engineering questions

Why does the physical label matter for KJ3221X1-BA1 12P2531X122 VE4003S2B2?
The photographed KJ3221X1-BA1 card is marked AOUT HART SERIES-2. It identifies the actual card function more directly than the additional VE4003S2B2 sales reference.

Can VE4003S2B2 be used as the output-card rating for KJ3221X1-BA1 12P2531X122 VE4003S2B2?
No. Emerson assigns VE4003S2B2 to an analog-input assembly. Confirm its relationship to the offered output card before assigning any assembly rating.

How should a HART valve positioner loop be checked after fitting KJ3221X1-BA1 12P2531X122 VE4003S2B2?
Compare the commanded analog value, measured loop current, HART communication and device response with the approved loop test procedure.

What termination detail is needed before replacing KJ3221X1-BA1 12P2531X122 VE4003S2B2?
Record the installed output termination-block marking and each channel connection. The card alone does not identify every field-wiring option.

How can an incorrect I/O function be avoided when ordering KJ3221X1-BA1 12P2531X122 VE4003S2B2?
Request a clear front and side nameplate photo showing KJ3221X1-BA1, 12P2531X122 and AOUT HART SERIES-2; reconcile the separate VE reference in writing.

Can the photographed revision R of KJ3221X1-BA1 12P2531X122 VE4003S2B2 be replaced by another revision without review?
Revision interchangeability has not been established from the label alone. Check the host release, termination and approved Emerson project records.

Source and application boundary

Offered-item nameplate identifies KJ3221X1-BA1, 12P2531X122, AOUT HART SERIES-2. Emerson DeltaV M-series Traditional I/O data sheet assigns VE4003S2B2 to an analog-input assembly; that additional reference is not treated as an output-card specification.

The output-card identity follows the offered-item nameplate. VE4003S2B2 remains an unreconciled additional reference and is not a source for output specifications.

Related product references

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

Emerson KJ3243X1-BK1 SE4022 12P4691X042	Emerson KJ3003X1-EA1
Emerson KJ3241X1-BA1 12P2506X032	Emerson KJ3222X1-BA1 12P2532X122 VE4033S2B1

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