# KJ3002X1-BF1 12P1732X082 VE4003S6B1

Emerson / DeltaV RTD input card

Emerson KJ3002X1-BF1 12P1732X082 VE4003S6B1 is offered for a DeltaV M-series I/O installation. The VE4003S6B1 catalog reference identifies an 8-channel RTD input assembly.

## Product identity and system role

The VE4003S6B1 reference groups a DeltaV I/O card with its specified termination arrangement. In the control system, this RTD input function transfers RTD information between the configured field circuit and controller. The physical KJ3002X1-BF1 and 12P1732X082 markings identify the offered hardware and must be reconciled with the VE assembly code.

The 8-channel catalog arrangement uses rtd termination block. The input channels acquire calibrated resistance-sensor signals for engineering-unit conversion in the configured DeltaV project. Wiring and host assignments are governed by the installed project.

## Verified technical characteristics

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|---|---|
| **Card family** | DeltaV M-series Traditional I/O |
| **Physical card marking** | KJ3002X1-BF1 |
| **Part number** | 12P1732X082 |
| **Catalog assembly reference** | VE4003S6B1 |
| **Catalog I/O role** | 8-channel RTD input assembly |
| **Termination arrangement** | RTD termination block |
| **Signal family** | Resistance temperature detector (RTD) |
| **Catalog point count** | 8 RTD inputs |

## Engineering context

**DeltaV RTD input**

Read temperature measurement from configured RTD circuits in the DeltaV I/O subsystem.

**Field interface**

The rtd termination block must match the installed wiring and carrier.

**Control project**

Retain the configured channel numbers, engineering units and alarm assignments.

**System restoration**

Return the affected channels to service only after the approved loop, I/O and diagnostic checks pass.

## Configuration and verification

**Match the complete marking:** Compare KJ3002X1-BF1 12P1732X082 VE4003S6B1 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 RTD 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 RTD channel map be preserved when replacing KJ3002X1-BF1 12P1732X082 VE4003S6B1?**
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 RTD input card to remain offline after fitting KJ3002X1-BF1 12P1732X082 VE4003S6B1?**
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 KJ3002X1-BF1 12P1732X082 VE4003S6B1?**
Compare conductor identification, polarity or commons, shielding and terminal assignment with the approved installation drawing.

**Can KJ3002X1-BF1 12P1732X082 VE4003S6B1 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 KJ3002X1-BF1 12P1732X082 VE4003S6B1?**
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 KJ3002X1-BF1 12P1732X082 VE4003S6B1?**
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 KJ3002X1-BF1 12P1732X082 VE4003S6B1?**
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 KJ3002X1-BF1 12P1732X082 VE4003S6B1?**
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.

VE4003S6B1 catalog characteristics describe the documented assembly. Confirm applicability of those characteristics to the complete KJ3002X1-BF1 12P1732X082 VE4003S6B1 physical marking and installed termination arrangement.

## Related product references

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

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

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