Product dashboard

Emerson VE4003S5B1 KJ3002X1-BG2 12P1731X082 is an eight-channel thermocouple and millivolt input assembly with cold-junction-compensated termination. It supports documented B, E, J, K, N, R, S and T thermocouple types plus low-level voltage input.

Exact model	Product type	System family	Functional role
VE4003S5B1 KJ3002X1-BG2	DeltaV 8-Channel Thermocouple and mV	DeltaV M-series Traditional I/O	Temperature Input Assembly

PARAMETER	DOCUMENTED VALUE
Exact assembly	VE4003S5B1 KJ3002X1-BG2 12P1731X082
Input function	Thermocouple / millivolt
Channels	8
Thermocouple types	B, E, J, K, N, R, S and T
Low-level voltage	-100 to 100 mV
A/D resolution	16-bit
Repeatability	0.05% of span
Cold-junction compensation	Local in terminal block or one external channel

Release basis: verify the exact identity, retained host relationship, connected interfaces and controlled functional result.

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System overview

VE4003S5B1 KJ3002X1-BG2 12P1731X082 joins the legacy temperature-input card to the cold-junction-compensated terminal execution defined for eight measurement channels.

Exact-position replacement

Matches VE4003S5B1 KJ3002X1-BG2 12P1731X082 to the recorded host, position and companion hardware before changeout.

Interface restoration

Rebuilds the documented power, signal, keying and protective interfaces for VE4003S5B1 KJ3002X1-BG2 12P1731X082.

Configuration-controlled service

Restores settings and assignments from the approved record rather than a neighboring module.

Acceptance and handover

Confirms diagnostics and the controlled functional response of VE4003S5B1 KJ3002X1-BG2 12P1731X082 before release.

SYSTEM POSITION	RECORD
Installed identity	VE4003S5B1 KJ3002X1-BG2 12P1731X082
Host relationship	DeltaV M-series Traditional I/O
Controlled function	acquisition of eight thermocouple or millivolt measurement channels

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Technical data map

PARAMETER	VERIFIED VALUE
Exact assembly	VE4003S5B1 KJ3002X1-BG2 12P1731X082
Input function	Thermocouple / millivolt
Channels	8
Thermocouple types	B, E, J, K, N, R, S and T
Low-level voltage	-100 to 100 mV
A/D resolution	16-bit
Repeatability	0.05% of span
Cold-junction compensation	Local in terminal block or one external channel
Common-mode rejection	120 dB at DC / 50 / 60 Hz
Open-sensor detection	Yes; 10-second detection time
LocalBus current	210 mA at 12 V DC nominal
Calibration	Not required

CONTROL BAND	VERIFICATION RECORD
Identity	Exact model and complete label
Mechanical	Form, seating and retention
Interfaces	Power, wiring, communication and protection
Configuration	Settings, project and revision
Release	acquisition of eight thermocouple or millivolt measurement channels

Technical evidence record: Emerson DeltaV M-series Traditional I/O product data sheet, March 2026

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Applications and precautions

1. Confirm the complete VE4003S5B1 KJ3002X1-BG2 12P1731X082 marking and documented hardware role before work.
2. Place the connected process and controller hardware in the approved maintenance state.
3. Record the host position, companion parts, cable direction, terminal assignments and active configuration.
4. Isolate every documented power, signal and stored-energy source before disconnecting hardware.
5. Protect keyed connectors, electronic contacts and labeled field conductors during handling.
6. Restore only the recorded power, wiring, grounding, shielding and configuration arrangement.
7. Energize in a controlled sequence and review module, carrier, controller and field diagnostics.
8. Function-test acquisition of eight thermocouple or millivolt measurement channels and retain the acceptance record before service release.

Complete each check against the installed record; hold release when any identity, connection, configuration or diagnostic result differs.

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Buyer and engineering FAQ

What is the documented role of VE4003S5B1 KJ3002X1-BG2 12P1731X082?

It is identified as a deltav 8-channel thermocouple and mv input assembly used for acquisition of eight thermocouple or millivolt measurement channels.

Why must the complete VE4003S5B1 KJ3002X1-BG2 12P1731X082 identity be retained?

The full model and suffix distinguish the installed execution from similar-looking revisions and related hardware.

Which value is documented for VE4003S5B1 KJ3002X1-BG2 12P1731X082 input function?

The verified product record gives input function as Thermocouple / millivolt.

How is channels specified for VE4003S5B1 KJ3002X1-BG2 12P1731X082?

The verified product record gives channels as 8.

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