Emerson

VE4003S5B1 KJ3002X1-BG2 12P1731X082

DeltaV 8-Channel Thermocouple and mV Input Assembly

This reference defines the engineering boundary of VE4003S5B1 KJ3002X1-BG2 12P1731X082 and separates documented product resources from site-specific assignments. It supports exact-model review, controlled replacement and evidence-based handover.

System position

Exact identity	System family	Functional role	Release basis
VE4003S5B1 KJ3002X1-BG2	DeltaV M-series Traditional I/O	Temperature Input Assembly	Recorded test and diagnostics

Control the identity boundary

Treat the complete VE4003S5B1 KJ3002X1-BG2 12P1731X082 marking, the DeltaV 8-Channel Thermocouple and mV Input Assembly designation and the receiving DeltaV M-series Traditional I/O position as one controlled identity.

IDENTITY / RESOURCE	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

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

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VE4003S5B1 KJ3002X1-BG2 12

Interfaces and integration

Trace the installed signal path

Integration review proceeds from the receiving position through mechanical, electrical and configuration interfaces before any replacement decision is released.

Exact assembly	VE4003S5B1 KJ3002X1-BG2
Input function	Thermocouple / millivolt
Channels	8

Define the receiving position

The host review links the physical slot, companion hardware and retained engineering revision to the offered item.

Host	DeltaV M-series Traditional I/O
Primary role	acquisition of eight thermocouple or millivolt
Acceptance	Recorded diagnostic response

Interface control matrix

CONTROL BAND	VERIFICATION RECORD
Identity	Model, designation and complete label
Mechanical	Position, seating and retention
Electrical	Loop supply and field conductors
Processing	Range, limits and correction
Supervision	Supply, range and wire-break states
Release	Controlled test with retained result

Configuration ownership

Keep assigned channel values under the approved project record.

Acceptance ownership

Name the retained result that authorizes handover of the measurement path.

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Technical resource bands

Only capabilities tied to the exact execution appear here; operating assignments remain configuration-controlled.

PARAMETER	VALUE
Exact assembly	VE4003S5B1 KJ3002X1-BG2
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

PARAMETER	VALUE
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

Label decision

Accept the stated part number only when the complete installed identity agrees.

Circuit decision

Confirm the recorded field-circuit arrangement before reconnecting any loop.

Processing decision

Restore channel processing from the approved project rather than a neighboring position.

Evidence decision

Use diagnostic observations and a controlled response to support final handover.

Engineering boundary

A similar faceplate or matching channel total does not prove interchangeability. Resolve the host position, connection scheme and controlled revision before use.

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VE4003S5B1 KJ3002X1-BG2 12

Controls and service logic

Identity control

Preserves the complete VE4003S5B1 KJ3002X1-BG2 12P1731X082 execution.

Host integration

Matches the installed DeltaV M-series Traditional I/O position.

Interface control

Retains power, signal, keying and protective connections.

Release control

Uses diagnostics and a functional test to close the work.

Service decision path

STEP	REQUIRED OUTCOME
1. Identify	Resolve label, designation and receiving position
2. Compare	Review circuit type, processing and supervision
3. Restore	Rebuild the recorded connection and configuration state
4. Demonstrate	Retain diagnostic and functional acceptance evidence

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Engineering decisions

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.

What does VE4003S5B1 KJ3002X1-BG2 12P1731X082 thermocouple types?

The verified product record gives thermocouple types as B, E, J, K, N, R, S and T.

Which setting applies to VE4003S5B1 KJ3002X1-BG2 12P1731X082 low-level voltage?

The verified product record gives low-level voltage as -100 to 100 mV.

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

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VE4003S5B1 KJ3002X1-BG2 12