

KJ3224X1-BA2

DeltaV M-series eight-channel thermocouple and millivolt input card

Eight thermocouple or low-level millivolt input signals

PRODUCT SNAPSHOT

BRAND

Emerson

FAMILY

Emerson DeltaV M-series traditional I/O

PART

KJ3224X1-BA2

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PRODUCT OVERVIEW

Eight thermocouple or low-level millivolt input signals

1

Accepts eight thermocouple or millivolt inputs

2

Supports eight characterized thermocouple types

3

Provides two isolated four-channel groups

4

Detects open sensors for channel diagnostics

SYSTEM COMPONENTS

DeltaV M-series I/O carrier

CJC-compatible terminal block

field thermocouples or millivolt sources

DeltaV control database

TECHNICAL NOTE

Verify KJ3224X1-BA2 and part number 13P0137X022, card key C1, CJC method, thermocouple type, polarity and isolated channel grouping before removal; after installation, prove open-sensor diagnostics and every configured temperature point.

TECHNICAL DATA

PARAMETER	VALUE
Part number	13P0137X022
Input channels	8
Input types	Thermocouple and low-level millivolt
Thermocouple types	B, E, J, K, N, R, S, T
Uncharacterized input range	-100 to +100 mV
A/D resolution	16 bit
Repeatability	0.05% of span
Common-mode rejection	120 dB at DC, 50 Hz and 60 Hz

PARAMETER	VALUE
Common-mode impedance	>10 Mohm
Normal-mode rejection	60 dB at 60 Hz
Open-sensor detection	Yes; less than 70 nA; 10 s
Local bus power	12 V DC nominal, 210 mA
Factory isolation test	1500 V DC
Isolation groups	Channels 1-4 and channels 5-8
Temperature units	degC or degF
Card key	C1

ENGINEERING NOTE

Verify KJ3224X1-BA2 and part number 13P0137X022, card key C1, CJC method, thermocouple type, polarity and isolated channel grouping before removal; after installation, prove open-sensor diagnostics and every configured temperature point.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
Bently Nevada 330851-02-000-080-10-00-00	Related industrial automation product	View Bently Nevada 330851-02-000-080-10-00-00 page
Bently Nevada 330851-01-000-020-10-00-00	Related industrial automation product	View Bently Nevada 330851-01-000-020-10-00-00 page
Bently Nevada 330850-91-05	Related industrial automation product	View Bently Nevada 330850-91-05 page
Bently Nevada 330876-01-50-01-05	Related industrial automation product	View Bently Nevada 330876-01-50-01-05 page
Bently Nevada 330876-03-10-00-00	Related industrial automation product	View Bently Nevada 330876-03-10-00-00 page
Bently Nevada 32000-28-05-15-080-03-02	Related industrial automation product	View Bently Nevada 32000-28-05-15-080-03-02 page
Bently Nevada 32000-28-05-08-080-03-02	Related industrial automation product	View Bently Nevada 32000-28-05-08-080-03-02 page
Bently Nevada 31000-16-10-00-050-03-02	Related industrial automation product	View Bently Nevada 31000-16-10-00-050-03-02 page

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Furnace temperature acquisition

Accepts eight thermocouple or millivolt inputs

Reactor multi-point temperature monitoring

Supports eight characterized thermocouple types

Millivolt transmitter integration

Provides two isolated four-channel groups

M-series I/O replacement

Detects open sensors for channel diagnostics

PRODUCT PRECAUTIONS

- 1 Verify the complete KJ3224X1-BA2 marking and its assigned Emerson DeltaV M-series traditional I/O position before work.
- 2 Place the connected furnace temperature acquisition process in the approved maintenance state.
- 3 Isolate applicable power and eight thermocouple or low-level millivolt input signals field energy before disconnecting conductors.
- 4 Record connector, conductor, address, firmware and software identities before removal.
- 5 Use ESD controls and protect keyed interfaces, exposed contacts and electronic assemblies.
- 6 Confirm the installed DeltaV M-series I/O carrier and CJC-compatible terminal block against the approved project.
- 7 Restore power in a controlled sequence and review device, network and host diagnostics.
- 8 Prove the intended reactor multi-point temperature monitoring function and retain the final test result.

ENGINEER FAQ

Q1 Does KJ3224X1-BA2 match DeltaV M-series I/O carrier in a Furnace temperature acquisition installation?

Verify the complete KJ3224X1-BA2 marking, the documented Emerson DeltaV M-series traditional I/O position and the installed DeltaV M-series I/O carrier before fitting the assembly.

Q3 Which Emerson DeltaV M-series traditional I/O records should be captured before removing KJ3224X1-BA2?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with KJ3224X1-BA2 before disconnection.

Q5 Which CJC-compatible terminal block condition should be checked when KJ3224X1-BA2 reports an abnormal state?

Check the CJC-compatible terminal block supply, seating and connection first, then compare channel diagnostics with the recorded KJ3224X1-BA2 baseline.

Q7 What maintenance evidence is required after KJ3224X1-BA2 is used for Millivolt transmitter integration?

Retain the nameplate record, corrective action, final diagnostics and a controlled millivolt transmitter integration functional-test result for KJ3224X1-BA2.

Q2 How should KJ3224X1-BA2 be wired when it must accept eight thermocouple or millivolt inputs?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for KJ3224X1-BA2; then continuity-test the affected path.

Q4 What controlled test confirms that KJ3224X1-BA2 can support eight characterized thermocouple types?

Apply the approved field or simulated stimulus, observe the Emerson DeltaV M-series traditional I/O indication and confirm the intended response without bypassing the normal interlocks.

Q6 Can KJ3224X1-BA2 be moved directly into Reactor multi-point temperature monitoring without validating DeltaV control database?

No. Confirm the DeltaV control database, revision, connection scheme and Emerson DeltaV M-series traditional I/O configuration before transferring KJ3224X1-BA2 to that duty.

Q8 How should KJ3224X1-BA2 be returned to service in M-series I/O replacement?

Restore power under control, verify provides two isolated four-channel groups, exercise the intended signal path and release KJ3224X1-BA2 only after the Emerson DeltaV M-series traditional I/O remains in its approved operating state.

SOURCE Emerson DeltaV M-series Traditional I/O product data sheet | M-series Traditional I/O product data

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