

INDUSTRIAL AUTOMATION PRODUCT

KJ3224X1-BA2

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

Eight thermocouple or low-level millivolt input signals

IDENTITY	VERIFIED VALUE
Manufacturer	Emerson
System family	Emerson DeltaV M-series traditional I/O
Part number	KJ3224X1-BA2
Country	USA
HS code	8537101190

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Technical Specifications

Technical values below are limited to the named Emerson product record.

PARAMETER	TECHNICAL 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
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

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System Role and Architecture

Eight thermocouple or low-level millivolt input signals

FUNCTION 1

Accepts eight thermocouple or millivolt inputs

FUNCTION 2

Supports eight characterized thermocouple types

FUNCTION 3

Provides two isolated four-channel groups

FUNCTION 4

Detects open sensors for channel diagnostics

Matched system components

- DeltaV M-series I/O carrier
- CJC-compatible terminal block
- field thermocouples or millivolt sources
- DeltaV control database

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	DeltaV M-series I/O carrier
Companion hardware	CJC-compatible terminal block
Field connection	field thermocouples or millivolt sources
Primary system function	Accepts eight thermocouple or millivolt inputs
Controlled acceptance duty	Furnace temperature acquisition

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Applications and Engineering Context

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

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.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	KJ3224X1-BA2 / KJ3224X1-BA2 recorded
Physical interface	DeltaV M-series I/O carrier
Companion check	CJC-compatible terminal block
Functional proof	Accepts eight thermocouple or millivolt inputs
Application test	Furnace temperature acquisition

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Engineering 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.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
GE IC752SPL013	Related industrial automation product	View GE IC752SPL013 page
Emerson KJ2005X1-SQ1-12P6383X022	Related industrial automation product	View Emerson KJ2005X1-SQ1-12P6383X022 page
Bently Nevada 3500-05-01-01-01-00-01	Related industrial automation product	View Bently Nevada 3500-05-01-01-01-00-01 page
Bently Nevada 330180-X1-00-MOD-145004-09	Related industrial automation product	View Bently Nevada 330180-X1-00-MOD-145004-09 page
Siemens A5E00296878	Related industrial automation product	View Siemens A5E00296878 page
Siemens A5E34612879	Related industrial automation product	View Siemens A5E34612879 page
Siemens A5E00825002	Related industrial automation product	View Siemens A5E00825002 page
Siemens A5E00755411	Related industrial automation product	View Siemens A5E00755411 page

MANUFACTURER SOURCE RECORD

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

M-series Traditional I/O product data

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