

KJ3224X1-BA2

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

CONTROLLED ENGINEERING COPY

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.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	KJ3224X1-BA2
Manufacturer part	KJ3224X1-BA2
Hardware type	13P0137X022
System family	Emerson DeltaV M-series traditional I/O
HS code	8537101190



APTER POWER SALES TEAM

WHATSAPP / PHONE +86 180 3023 5313
EMAIL sales13@apterpower.com
WEBSITE www.apterpower.com



01 PRE-INSTALLATION PLAN

- 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.

MATCHED HARDWARE

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

INSTALLATION CONTROL RECORD

CONTROL ITEM	REQUIRED RECORD
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

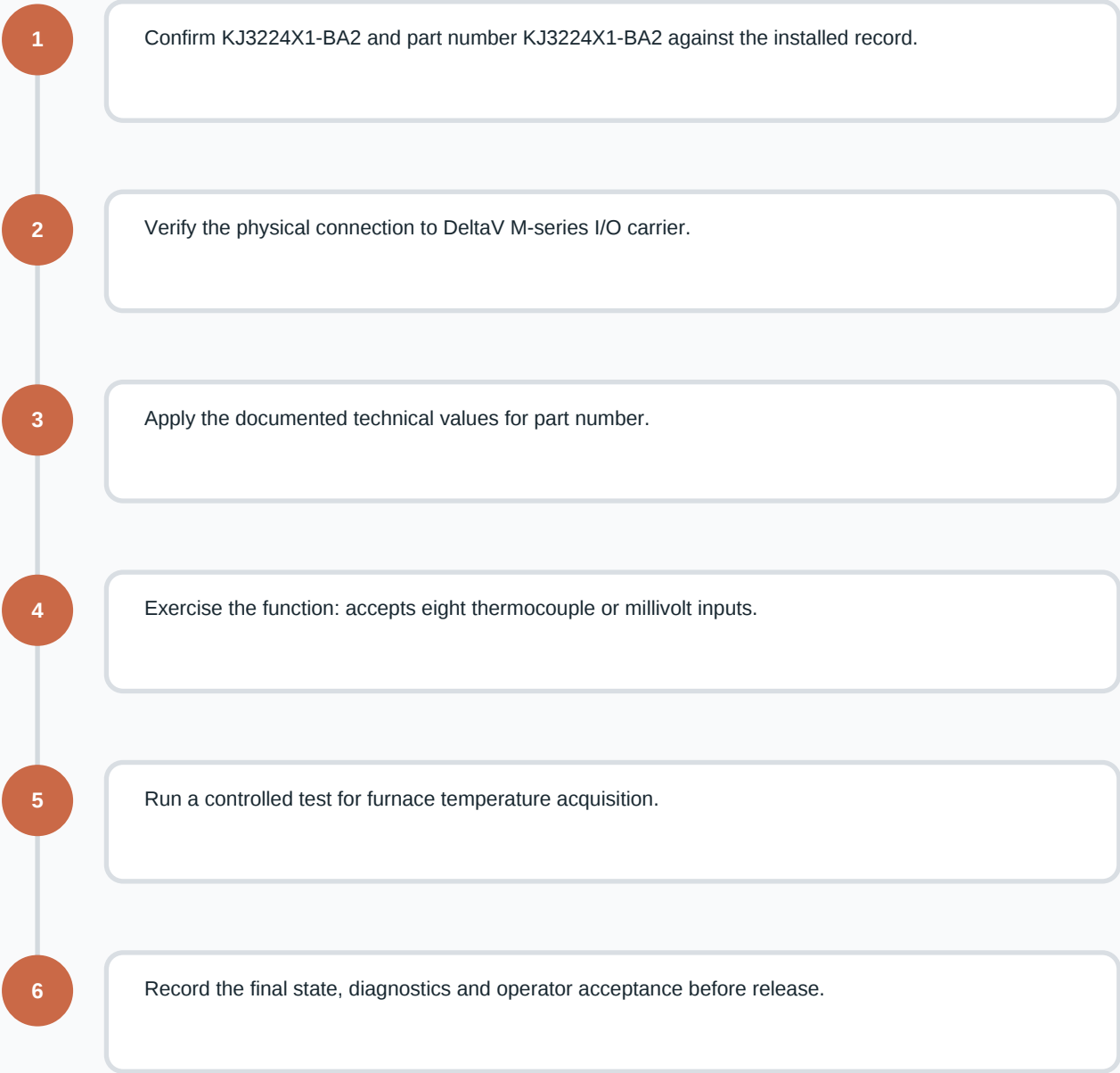
02 WIRING & INTERFACE CHECKS

CHECK ITEM	REQUIRED 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

FIELD 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.

03 COMMISSIONING WORKFLOW



COMMISSIONING ACCEPTANCE EVIDENCE

EVIDENCE ITEM	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

04 RETURN-TO-SERVICE RECORD

- ☐
- Confirm the installed DeltaV M-series I/O carrier and CJC-compatible terminal block against the approved project.
- ☐
- Restore power in a controlled sequence and review device, network and host diagnostics.
- ☐
- Prove the intended reactor multi-point temperature monitoring function and retain the final test result.
- ☐
- Confirm the intended process response before normal operation.

VERIFICATION RECORD

PRODUCT IDENTITY	KJ3224X1-BA2
INSTALLED POSITION	Documented Emerson DeltaV M-series traditional I/O position
VERIFICATION METHOD	Controlled inspection and functional test
RELEASE RECORD	Final diagnostic state retained before service

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
Siemens A5E00297628	Related industrial automation product	View Siemens A5E00297628 page
Siemens A5E03915589	Related industrial automation product	View Siemens A5E03915589 page
Siemens A5E36228241	Related industrial automation product	View Siemens A5E36228241 page
Siemens A5E00282044	Related industrial automation product	View Siemens A5E00282044 page
Bently Nevada 330901-00-90-10-02-05-953416	Related industrial automation product	View Bently Nevada 330901-00-90-10-02-05-953416 page
Bently Nevada 330330-080-01-00	Related industrial automation product	View Bently Nevada 330330-080-01-00 page
Bently Nevada 330330-070-00-00	Related industrial automation product	View Bently Nevada 330330-070-00-00 page
Bently Nevada 330854-080-05	Related industrial automation product	View Bently Nevada 330854-080-05 page

SOURCE IDENTIFIERS

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

M-series Traditional I/O product data

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