Emerson KJ4001X1-CG1 12P1812X042

Complete Product Information

Emerson KJ4001X1-CG1 12P1812X042 is a thermocouple/mv terminal block for cold-junction-compensated thermocouple and millivolt measurement in the DeltaV M-series I/O subsystem.

WHAT THIS PRODUCT DOES

Emerson KJ4001X1-CG1 12P1812X042 is a thermocouple/mv terminal block for cold-junction-compensated thermocouple and millivolt measurement in the DeltaV M-series I/O subsystem.

Product characteristic 1

Terminates eight thermocouple or millivolt measurement circuits.

Product characteristic 2

Provides local cold-junction compensation at the field interface.

Product characteristic 3

Supports the documented DeltaV thermocouple sensor types.

Product characteristic 4

Uses C1 keying with the matched thermocouple/mV card.

PRODUCT-PAGE TECHNICAL SNAPSHOT

Component type	Thermocouple/mV termination block
Input family	8-channel thermocouple/mV
Sensor types	B, E, J, K, N, R, S, T and uncharacterized mV
Local compensation	Cold-junction compensation at the terminal block
Card key	C1
System family	DeltaV M-series Traditional I/O

IMPORTANT NOTICE

Match the complete KJ4001X1-CG1 12P1812X042 marking and documented interfaces before installation, then verify the intended technical response.

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Features and technical data

TECHNICAL DATA SHOWN ON THE PRODUCT PAGE

Component type	Thermocouple/mV termination block
Input family	8-channel thermocouple/mV
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Local compensation	Cold-junction compensation at the terminal block
Card key	C1
System family	DeltaV M-series Traditional I/O

FEATURE INTERPRETATION

Product identity

Terminates eight thermocouple or millivolt measurement circuits.

System role

Provides local cold-junction compensation at the field interface.

Service context

Supports the documented DeltaV thermocouple sensor types.

Return-to-service focus

Uses C1 keying with the matched thermocouple/mV card.

SIGNAL OR CONTROL PATH

Field signal → **Termination** → **Input module** → **Control database**

KJ4001X1-CG1 12P1812X042 must remain matched to its documented system interface, mating hardware and controlled configuration.

PRODUCT-PAGE TECHNICAL QUESTIONS

Which component type applies to KJ4001X1-CG1 12P1812X042?	The documented component type is Thermocouple/mV termination block.

Common applications

The application groups below reproduce the model-specific uses presented on the product page and connect each use to a practical verification point.

Furnace temperature

Connects thermocouples for high-temperature process monitoring.

Turbine exhaust temperature

Terminates multiple thermocouple measurement points.

Kiln and reactor monitoring

Provides compensated inputs for process temperature control.

Low-level millivolt signals

Accepts configured uncharacterized mV measurements.

APPLICATION VERIFICATION MAP

Furnace temperature	Confirm the documented system position and the required operating function.
Turbine exhaust temperature	Compare the restored connection or control path with the approved record.
Kiln and reactor monitoring	Check the physical interface and the retained configuration before startup.
Low-level millivolt signals	Record diagnostics and the final controlled response before release.

INFORMATION CARRIED INTO THE WORK RECORD

Identity record

Complete marking and assigned system position.

Connection record

Connector, conductor and interface arrangement as found.

Configuration record

Controlled settings, application data and option state.

Acceptance record

Observed status, response and release decision.

IMPORTANT NOTICE Use the complete product identifier for every application review; a related product link is not evidence of interchangeability.

APPLICATION QUESTIONS

What sensor types should be checked on KJ4001X1-CG1 12P1812X042?	The documented sensor types is B, E, J, K, N, R, S, T and uncharacterized mV.
Why does local compensation matter when selecting KJ4001X1-CG1 12P1812X042?	The documented local compensation is Cold-junction compensation at the terminal block.
Where does KJ4001X1-CG1 12P1812X042 use its stated card key?	The documented card key is C1.

Product precautions and questions

EIGHT MODEL-SPECIFIC PRECAUTIONS

01	Match both identifiers and C1 keying.
02	Record thermocouple type and terminal polarity for every channel.
03	Use compatible extension wire and connectors.
04	Protect the CJC area from local heat sources.
05	Keep low-level wiring separated from interference sources.
06	Restore channel type and engineering range.
07	Compare each channel with a traceable temperature or mV source.
08	Confirm CJC diagnostics and alarm response before release.

FREQUENTLY ASKED TECHNICAL QUESTIONS

Which component type applies to KJ4001X1-CG1 12P1812X042?	The documented component type is Thermocouple/mV termination block.
How is KJ4001X1-CG1 12P1812X042 specified for input family?	The documented input family is 8-channel thermocouple/mV.
What sensor types should be checked on KJ4001X1-CG1 12P1812X042?	The documented sensor types is B, E, J, K, N, R, S, T and uncharacterized mV.
Why does local compensation matter when selecting KJ4001X1-CG1 12P1812X042?	The documented local compensation is Cold-junction compensation at the terminal block.

IMPORTANT NOTICE	Confirm the complete KJ4001X1-CG1 12P1812X042 identity, mating interface and controlled system position before return to service.

RELEASE CHECKLIST

Identity accepted	The complete product marking and assigned system position agree.
Interfaces accepted	Connections, retention and controlled configuration match the recorded condition.
Response accepted	Diagnostics and the intended technical response have been documented.

FAQ, configuration control and related models

ADDITIONAL TECHNICAL QUESTIONS

Where does KJ4001X1-CG1 12P1812X042 use its stated card key?	The documented card key is C1.
What value is documented for the system family of KJ4001X1-CG1 12P1812X042?	The documented system family is DeltaV M-series Traditional I/O.
Which records should be retained before removing KJ4001X1-CG1 12P1812X042?	Record the complete marking, installed position, wiring, keying and controlled configuration before removal.
Which acceptance checks should follow installation of KJ4001X1-CG1 12P1812X042?	Verify physical engagement, channel status, diagnostics and the intended signal or communication response before release.

CONFIGURATION CONTROL RECORD

Configuration identity	Emerson KJ4001X1-CG1 12P1812X042
Technical boundary	Apply only the functions and interfaces shown for this product or its identified system family.
Selection control	Match the complete ordering string and installed interfaces before purchase or installation.

RELATED MODELS ON APTERPOWER

Emerson KJ3002X1-BE1 12P0682X052	Related product reference. Review the complete ordering string before selection.
Emerson KJ3203X1-BA1 12P3270X032	Related product reference. Compare the required interface and system position.
Emerson KJ4001X1-CC1 12P0733X032	Related product reference. Confirm the execution independently for the intended task.

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