

KL2001X1-BA1

CHARMs Smart Logic Solver

Product identification

Emerson KL2001X1-BA1 is the CHARMs Smart Logic Solver for DeltaV SIS. It executes safety logic within the documented DeltaV SIS CHARM architecture.

Parameter	Official value
Manufacturer	Emerson
Model	KL2001X1-BA1
Product Family	DeltaV SIS
Product Type	CHARMs Smart Logic Solver

Technical information

Parameter	Official value
Hazardous-Area Use	Class I Division 2 and Zone 2
Insertion Rule	Do not insert or remove while energized in a hazardous area
Serviceable Parts	None
Input Power	+24 VDC at 325 mA
Calibration	Not required
System Family	DeltaV SIS
Ambient Temperature	-40 to +70 degrees C
Relative Humidity	5 to 95%, non-condensing
Airborne Contaminants	ISA-S71.04 Class G3

Applications

- Executes configured safety-instrumented functions in DeltaV SIS.
- Integrates safety logic with the CHARMs-based safety I/O architecture.
- Supports approved hazardous-area installations when mounted according to the referenced instructions.

Hazardous Handling

- Official documentation specifies hazardous-area use as Class I Division 2 and Zone 2 for this configuration.
- Official documentation specifies insertion rule as Do not insert or remove while energized in a hazardous area for this configuration.
- Official documentation specifies serviceable parts as None for this configuration.

Power & Service

- Official documentation specifies input power as +24 VDC at 325 mA for this configuration.
- Official documentation specifies calibration as Not required for this configuration.
- Official documentation specifies system family as DeltaV SIS for this configuration.

Environmental Limits

- Official documentation specifies ambient temperature as -40 to +70 degrees C for this configuration.
- Official documentation specifies relative humidity as 5 to 95%, non-condensing for this configuration.
- Official documentation specifies airborne contaminants as ISA-S71.04 Class G3 for this configuration.

Selection and installation checks

- Verify the certified sis architecture and project revision.
- Remove power before insertion or removal in hazardous locations.
- Retain the exact kl2001x1-ba1 hardware identity.

Request a quotation
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Product reference
KL2001X1-BA1
CHARMs Smart Logic Solver



Manufacturer source

<https://www.emerson.com/is/content/emerson/en/systems-and-software/deltav-distributed-control-system-dcs/certificates/atex/kl2001x1-ba1-charms-smart-logic-solver-csfs.pdf>