

# KJ3002X1-BC1 4-Wire AI, 8-Channel, 4-20 mA Card

## Hazardous Atmosphere



Nemko No. 02ATEX431U  
EEx nA IIC T4

## Power Specifications

LocalBus power rating	12 VDC at 150 mA
Bussed Field Power Rating	24 VDC at 300 mA
Field circuit rating	24 VDC at 32 mA

## Environmental Specifications

Ambient Temperature	0 to 60° C
Shock	10g ½ Sinewave for 11 msec
Vibration	1mm Peak to Peak from 5 to 16Hz; 0.5g from 16 to 150Hz
Airborne Contaminants	ISA-S71.04 –1985 Airborne Contaminants Class G3
Relative Humidity	5 to 95% Non-Condensing IP 20 Rating
Terminal block key position	A1

**Note:** Refer to the product label for serial number and location and date of manufacture. Refer also to the wiring diagram on the left side of the card.

**Warning:** This product has specific instructions for installation, removal and operation in hazardous areas. Refer to document 12P2046 "*DeltaV™ Scalable Process System Zone 2 Installation Instructions*". Other installation instructions are available in the "*Installing Your DeltaV Automation System*" manual.

## Removal and Insertion

Field power supplied to this device, either at the field terminal or as bussed field power through the carrier, must be removed before removing or connecting the device.

This unit may be removed or inserted while system power is energized under the following conditions: **(Note** Only one unit at a time may be removed with system power energized.)

- When used with KJ1501X1-BC1 System Dual DC/DC Power Supply operating on 24 VDC or 12 VDC input power. The primary circuit wiring inductance for input power must be less than 23 uH, or a certified supply with an open circuit voltage,  $U_i$  of 12.6 VDC and an  $L_o$  of less than 23 uH (including wire inductance).
- Non-sparking field circuits are designed so that ignition does not occur during normal operation. Non-sparking field circuits **MUST** be de-energized before removing or inserting models.

A rotary keying system ensures compatibility between I/O cards and terminal blocks after installation is complete. The terminal block must have the keys set for the I/O card with which it is to be used.

A terminal block fuse may NOT be removed with field power energized for non-sparking circuits.

## Maintenance and Adjustment

This unit contains no user serviceable parts and should not be disassembled for any reason. Calibration is not required.

## Other Safety Approvals



CL. I Div. 2  
GP.A,B,C,D  
HAZ.LOC.



LR87534