

## ATEX Instruction Sheet

Part Number: ATEX51

Publish date: November, 2013

# S-Series AI 16-Channel 4-20 mA HART Card

## KJ3223X1-BK1 S-Series AI 16-Channel 4-20 mA HART Card

### Hazardous Atmosphere



Ex nA [nL] IIC Gc

Ex nA [ic] IIC Gc

FM13ATEX0034U

IECEX FMG 13.0015U

### Power Specifications

LocalBus power rating	12 VDC at 150 mA
Bussed field power rating	24 VDC at 600 mA
Field circuit rating	24 VDC at 30 mA/channel

### Environmental Specifications

Ambient Temperature	-40 to 70° 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	A2

**Note:** Refer to the product label for serial number and location and date of manufacture.

**Warning:** This product has specific instructions for installation, removal and operation in hazardous areas. Refer to document 12P5404 "*DeltaV™ S-Series Digital Automation System Zone 2 Installation Instructions*". Other installation instructions are available in the "*DeltaV™ S-Series and CHARMs Hardware Installation*" manual.

### Removal and Insertion

When system power is energized, an I/O card can be removed or inserted only when used with the

KJ1501X1-BK1 System DC/DC Power Supply operating on 24 VDC input power with primary circuit wiring inductance of less than 23 uH, or with a certified bulk power supply with an open circuit voltage  $U_o$  of 12.6 VDC and an  $L_o$  of less than 23 uH (including wire inductance).

**Note:** Only one unit at a time may be removed with system power energized.

An I/O loop assessment must be completed on all energy-limited nodes.

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 used.

### 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. 1 Div. 2  
GP. A,B,C,D  
HAZ. LOC.  
TEMP. Rating T4

