

# KC3020X1-BA1 DO Plus, 32-Ch 24VDC High-Side

## Hazardous Atmosphere



II 3 G Ex nA nC IIC Gc  
FM15ATEX0004U  
IECEX FMG 15.0001U

## Power Specifications

|                    |                      |
|--------------------|----------------------|
| Local Bus Power    | 12 VDC at 150 mA     |
| Bussed Field Power | 24 VDC at 3.2 A/Card |
| Field Circuit      | 24 VDC at 100 mA/Ch. |

## Environmental Specifications

|                             |                                                                |
|-----------------------------|----------------------------------------------------------------|
| Ambient Temperature         | -40 °C to +70 °C                                               |
| Shock                       | 10 g half-sine wave for 11 ms                                  |
| Vibration                   | 1 mm peak to peak from 2 to 13.2 Hz; 0.7 g from 13.2 to 150 Hz |
| Airborne Contaminants       | ISA-S71.04 –1985 Airborne Contaminants Class G3                |
| Relative Humidity           | 5 to 95% Non-Condensing                                        |
| Terminal block key position | B4                                                             |

**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 12P2046 "*DeltaV™ Scalable Process System Zone 2 Installation Instructions*". Other installation instructions are available in the "*DeltaV™ S-series and CHARMS Hardware Installation*" 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 cannot be removed or inserted with system power energized.

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.

## 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

