

MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

DELTA V

KC3010X1-BA2

16-CHANNEL ANALOG INPUT CARD

Used with the applicable DeltaV S-series traditional I/O configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: Emerson official manufacturer documentation

KC3010X1-BA2 AI 16-CH 4-20mA HART Plus Card

Hazardous Atmosphere



III 3G Ex ec IIC Gc
II 3G Ex ec [ic] IIC Gc
FM19ATEX0173U
IECEX FMG 19.0019U
FM21UKEX0017U



CL. I Div. 2 GP. A,B,C,D
CL. 1 Zone 2 AEx/Ex ec IIC Gc
CL. 1 Zone 2 AEx/Ex ec [ic] IIC Gc
FM17US0286U
FM17CA0145U

Power Specifications

Local Bus Power	12 VDC at 150 mA
Bussed Field Power	24 VDC at 500 mA
Field Circuit	24 VDC at 30 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	A6

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.

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

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

