MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

EMERSON

KC3010X1-BA1 12P6762X042

16-CHANNEL HART ANALOG INPUT

Used with the applicable DeltaV AI Plus configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: Emerson KC3010X1-BA1 ATEX146, November 2017

KC3010X1-BA1 AI Plus, 16-Ch 4-20mA HART

Hazardous Atmosphere

II 3 G Ex nA [ic] IIC Gc
FM15ATEX0004U
IECEx FMG 15.0001U

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

FM APPROVED
CL. 1 Div. 2
GP. A,B,C,D
HAZ. LOC.
TEMP. Rating T4

EMERSON.
Process Management