ATEX Instruction Sheet
Part Number: ATEX41
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CHARM Baseplate Accessories

KL4502X1 CHARM Baseplate Accessories

Hazardous Atmosphere

II 3 G

Nemko No. 11ATEX3029U
Ex nA IIC T4 Gc

Power Specifications

CHARM Terminal blocks power rating	32 VDC at 2 A

Environmental Specifications

Ambient Temperature	-40 to 70° C
Shock	10g ½ Sinewave for 11 msec
Vibration	1mm Peak to Peak from 2 to 13.2Hz; 0.7g from 13.2 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	Automatically set during installation

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 12P5403 *"DeltaV™ Electronic Marshalling Digital Automation System (CHARM I/O Subsystem) Zone 2 Installation Instructions".* Other installation instructions are available in the *" DeltaV™ S-series and CHARMs Hardware Installation"* manual.

Removal and Insertion

CHARM Address Terminals and CHARM Column Terminators cannot be removed or installed with system power energized.

CHARM Terminal Blocks can be added or removed with System Power applied only when the following conditions are met:

- when the power supplied to the KL2101X1-BA1 charm I/O Card has a maximum open circuit voltage (Voc) of 26.4VDC
- no Charm is installed
- no energized field wiring is connected to the terminal

Once installed, the Charm Terminal assumes the circuit parameters of the Charm for that position.

For non-sparking circuits, the fuse on a CHARM terminal block cannot be removed when field power is energized.

A keying system ensures compatibility between a CHARM and the CHARM terminal block when the CHARM is installed on the terminal block. The terminal block keys are automatically set the first time the CHARM is installed on the terminal block. To install another CHARM type on a terminal block, reset the keys by removing the terminal block and releasing the keys from the locked position.

A similar keying system ensures compatibility between an Address Plug and CHARM Address Terminal when installed. The Address Terminal keys are automatically set the first time the Address Plug is installed. To install a different Address Plug number on an Address Terminal, reset the keys by removing the Address Terminal from the CHARM Baseplate and pressing the keys to release them from the locked position.

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 — CE — CSA LR87534

EMERSON Process Management