

## ATEX Instruction Sheet

Part Number: ATEX127

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# CHARM Thermocouple/mV Terminal

## KL4502X1-NA1 CHARM Thermocouple/mV Terminal

### Hazardous Atmosphere



II 3G Ex nA nL IIC Gc

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FM12ATEX0089U

IECEX FMG 12.0036U

### Power Specifications

CHARM TC/mV 5 VDC at 100m A

Terminal power rating

### 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 Thermocouple/mV Terminals 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.

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.

### 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

