

KL3031X1-BA1

RTD Input CHARM

Product identification

Emerson KL3031X1-BA1 is the RTD Input CHARM for DeltaV Electronic Marshalling. It conditions and digitizes one RTD temperature input in the CHARM I/O architecture.

Parameter	Official value
Manufacturer	Emerson
Model	KL3031X1-BA1
Product Family	DeltaV Electronic Marshalling
Product Type	RTD Input CHARM

Technical information

Parameter	Official value
Sensor Type	RTD input
Sensor Wiring	2-wire, 3-wire, or 4-wire
Channels	One characterized field channel
Resolution	24-bit A/D converter
Repeatability	0.05% of span
Calibration	None required
Excitation Current	0.5 mA for 2- and 4-wire; 0.25 mA for 3-wire
Common-Mode Rejection	90 dB typical at DC/50/60 Hz
Official Ordering Number	SE4303T03

Applications

- Connects RTD temperature sensors to DeltaV Electronic Marshalling.
- Supports two-, three-, and four-wire RTD field configurations.
- Provides single-channel temperature acquisition for control and monitoring strategies.

RTD Configuration

- Official documentation specifies sensor type as RTD input for this configuration.
- Official documentation specifies sensor wiring as 2-wire, 3-wire, or 4-wire for this configuration.
- Official documentation specifies channels as One characterized field channel for this configuration.

Measurement Performance

- Official documentation specifies resolution as 24-bit A/D converter for this configuration.
- Official documentation specifies repeatability as 0.05% of span for this configuration.
- Official documentation specifies calibration as None required for this configuration.

System Identification

- Official documentation specifies excitation current as 0.5 mA for 2- and 4-wire; 0.25 mA for 3-wire for this configuration.
- Official documentation specifies common-mode rejection as 90 dB typical at DC/50/60 Hz for this configuration.
- Official documentation specifies official ordering number as SE4303T03 for this configuration.

Selection and installation checks

- Select the correct rtd type and wiring method.
- Use a compatible charm terminal block.
- Verify sensor range and lead compensation in configuration.

Request a quotation
info@apterpower.com
+86 18106909650

Product reference
KL3031X1-BA1
RTD Input CHARM



Manufacturer source

<https://www.emerson.com/is/content/emerson/es/systems-and-software/ams/manuals-and-guides/documents/ams-asset-monitor-installation-guide-man.pdf>