



SEC-W SERVICE ENTRANCE CONTROLLER

The SEC-W is an Electrical Vehicle Energy Management System designed to monitor the incoming utility feeders and distribution equipment to control and modulate downstream DCC-9_{Gen3} EVEMS's in multi-tiered parking garage applications.

Key Features:

- Monitors up to 3 Main Distribution Points in real-time, each being either 3_{ph} or 1_{ph}
- Controls up to 8 independent hardwired groups using FIFO logic to provide maximum system up-time and balance between all groups
- Designed to control and communicate with RVE's DCC-9_{Gen3} EVEMS's
- Prevents expensive utility service upgrades
- Fail-safe hardware and software design for maximum safety
- Allows each owner to install an EV Charger of their preference
- No Subscription Fees
- Design and Manufactured in Canada
- CSA Approved

Control Operation:

The main constraint for installing EV chargers in most MURB's (multi-unit residential building) are the main service entrances which typically do not have enough capacity to allow all owners to install EV chargers. When an EVEMS system is installed which monitors all main electrical distribution points and individual unit breaker panels, the EV charging loads will efficiently utilize all available electrical capacity in the distribution system.

Our SEC-W monitors in real-time up to three main distribution points which then controls and balances up to 8 independent EVEMS groups ensuring electrical distribution safety and maximum electrical efficiency. The SEC-W utilizes FIFO logic to balance all EVSE groups as needed to ensure maximum system up-time while safeguarding the electrical distribution system as to not exceed 80% at any measured point. It will automatically turn off EVSE groups as the system demand approaches the maximum limit and turn the EVSE groups back on as the system demand is reduced.

Specifications:

- EVEMS: Electrical Energy Management System
- Can monitor up to three distribution points, each being either 3_{ph} or 1_{ph}.
 - The most common applications include:
 - Main service entrance
 - Metering Stack A Feeders (Optional)
 - Metering Stack B Feeders (Optional)
- Designed specifically to control and communicate with RVE's DCC-9_{Gen3} EVEMS's
- Ensures that all EVSE loads are turned off once any measured point exceeds 80% of its rating
- Balances up to 8 independent control groups providing maximum system up-time
- Utilizes FIFO controls ensuring balance between all control groups.
 - The first group to turn **off** is the one which has been **on** the longest
 - The first group to turn **on** if the one which has been **off** the longest
 - In the rare case the system load requires one or more groups to remain off for extended periods, our controls will cycle through the groups on a time basis to ensuring balanced system up-time for all groups
- Requires 120V hardwired connection. Dedicated 15A-1P circuit recommended.
- Communicates with downstream EVEMS equipment via two-wire dry-control signals
- No monthly or annual monitoring or subscription fees

Contact us today for more information or pricing!