



Designed for new installation of electric vehicle chargers (EVC) and other load management / peak shaving applications

- Can be installed on any main or sub panel up to 1,000 amps to add managed loads up to 60 amps continuous.
- Adapts to any application using the precision field adjustable set points. These maximize access to the added load and prevent looping.
- Field adjustable set points include: panel overload amperage, overload inrush cutoff delay, restore amperage threshold, load restore delay time and line-loss compensation adjustment for CTs. Controller LCD displays actual real-time amperage on panel.
- Prevents overloading and saves costly upgrades to panel and / or electrical infrastructure.
- Controller is self-powered from line in voltage. External power supply not required. Can control 120 VAC single pole or 208-240 VAC double pole circuits.
- Utilizes a magnetic latching relay for long-term reliability, and box-lug in and out terminals for ease of installation.
- Split core CTs available in 100 amp, 250 amp, 500 amp and 1,000 amp ratings.
- Comes standard in polycarbonate 3R enclosure. Available in NEMA 01, 03, 04 steel and stainless steel enclosures.

Load Watch - Power Manager

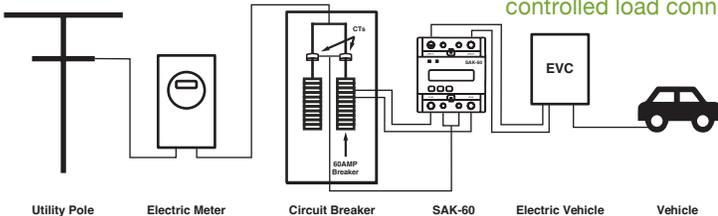
Allows loads up to 60 amps to be added to any main service panel or sub panel that is at risk of overload, or will become overloaded, when a new load is introduced. The onboard intelligent micro-controller monitors the load on the existing panel and only allows the added load access to the panel when capacity is available. Installation requires open breaker.

- UL Listed - File # E515902

Diagrams

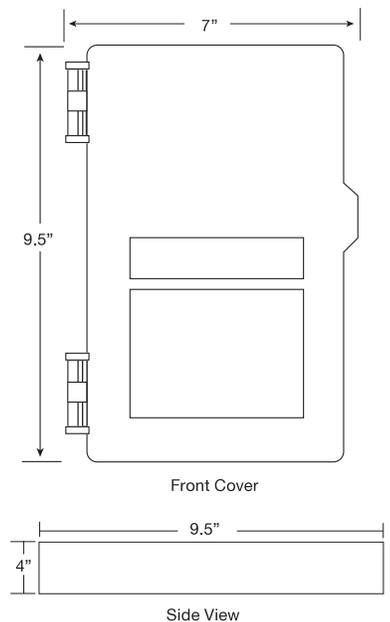
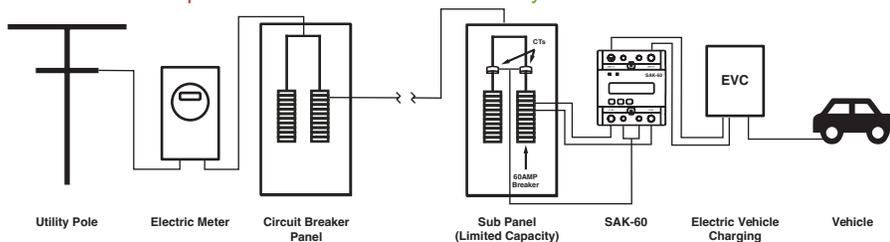
PROBLEM: Main circuit panel does not have capacity to add EVC and trips main breaker when EVC is active.

SOLUTION: Install SAK-60MS in between EVC and main panel. Load management device will ensure panel is never overloaded by EVC or any controlled load connected to SAK-60MS.



PROBLEM: New load is required downstream of main panel. The remote sub panel is near capacity. It is not cost-effective to run new circuit from main panel.

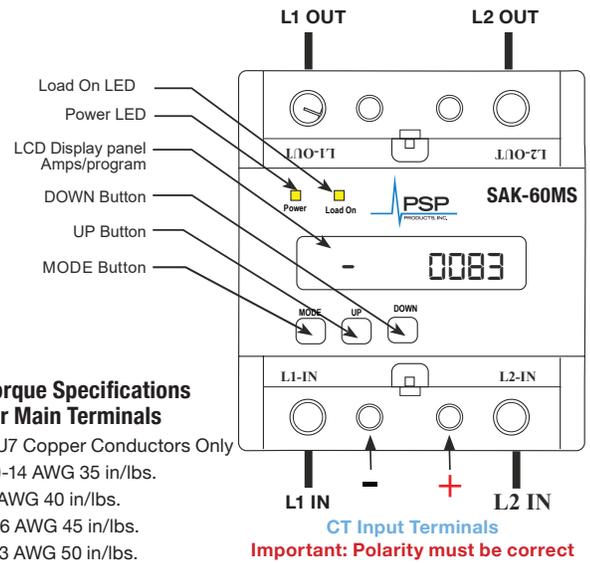
SOLUTION: Install SAK-60MS in between EVC and sub panel. Load management device will ensure sub panel is never overloaded by EVC or any controlled load connected to SAK-60MS.



Installation Programming Guide

Installation Instructions

1. Confirm power is off prior to performing the installation.
2. Confirm connected load does not exceed 60 amps.
3. Use the appropriate wire size and type based on the connected load.
4. Connect L1 & L2 input and output connections. Install CTs on L1 and L2 at panel input. Connect CT control wires (black to negative and red to positive) on provided terminals on SAK-60MS. Torque to required specifications. Replace finger guard covers. Restore power.
5. Confirm power LED is illuminated and proceed to programming functions.



To Enter Programming Mode

Push “Mode” button one time. Setup will begin by displaying setting “CF250”. Each time mode button is pressed, the menu advances to the next setting. Adjustments to the settings are made using the UP & DOWN buttons. The program mode exits and saves settings after 30 seconds of inactivity. The reading on the display screen reflects the highest amperage recorded from either L1 or L2 from CT’s. Technical Support Call **703-687-4057**.

Programming Adjustments

Mode	Adjustment Range	Adjustment Details
CF	001 - 999	CT Full Current Range: Set for the highest amperage the connected CT can read (MCB rating). Generally 100, 250 or 500 amps. Maximum rating 999 amps.
HC	100 - 999	High Current Set Point: This is the amperage level that when exceeded will cause the controlled load to be disconnected.
Od	001 - 999	Off Delay: Set for the delay time in seconds before the controlled load will be disconnected in the event high current set point is exceeded. Allows for inrush stabilization.
LC	001 - 999	Load Control: Adjust in amps the restore set point to turn controlled load on. Under all conditions the load will not be restored until load on panel is below this set point.
Ld	001 - 999	Load Delay: Adjust the delay time in seconds before the controlled load will be restored after an over current event or at power up. The panel load must be less than Load Control set point before the load will be restored.
Cv	050 - 100	CT DC Operating Range: Adjustable for 0-5 volt and 0-10 volt DC Current Transformers. CTs provided are 5 volts.
CC	001 - 099	CT Compensation Adjustment: Consult technical support prior to making any changes to this adjustment. Default setting is 0.03 for 0-100 amp CT and 0.04 for 0-500 amp CT.
EP	000 - 001	Eprom Protection: Password protection for settings. Set to 000 for protection OFF or 001 for password protection.
S	000 - 999	Enter Passcode: Enter 0000 to 9999 use down key to adjust position and up key adjust value.