



Don't Trip—Watch Mini's Got It Covered.



WATCH MINI

EV Charger Load Management Controller For
Residential Panels Up to 400A | 60A Load Control

The Watch Mini is a precision load management controller that allows contractors to safely install electric vehicle chargers—even when main or subpanels are at capacity.

Designed for residential and light commercial applications, it intelligently monitors panel load and only activates the EV charger (or other controlled load) when sufficient capacity is available.

Using field-programmable settings and real-time current sensing via split-core CTs, Watch Mini eliminates the need for costly panel upgrades or service increases. It comes pre-wired for fast installation, requires no external power supply, and features a NEMA 3R-rated enclosure designed for long-term durability in both indoor and outdoor environments.



Smart Load Management

Monitors real-time panel load and only enables the EV charger when capacity is available—eliminating the need for panel upgrades or service increases.



Installer-Ready Design

Pre-wired 250A split-core CTs and a magnetic latching relay ensure fast, reliable installation. Self-powered—no external power supply required.



Panel-Friendly Integration

Works on any main or subpanel up to 400A. Avoids nuisance tripping by delaying load-on and load-off events during inrush or brief current spikes.



Flexible, Field-Adjustable Programming

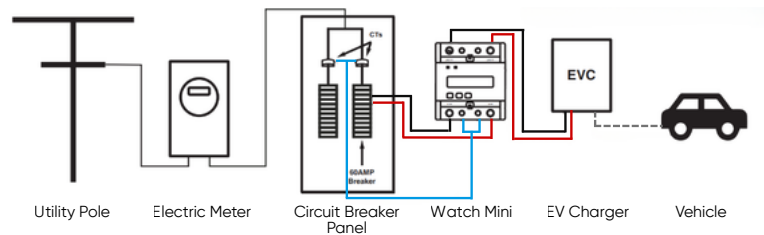
Push-button setup with password protection. CT range, overcurrent trip point, delays, and restore thresholds are fully field-adjustable.

BREAKER	MAIN POWER SUPPLY								
EV Charger	60A	70A	80A	90A	100A	125A	150A	200A	400A
30A	✓	✓	✓	✓	✓	✓	✓	✓	✓
40A	✗	✗	✓	✓	✓	✓	✓	✓	✓
50A	✗	✗	✗	✗	✓	✓	✓	✓	✓
60A	✗	✗	✗	✗	✓	✓	✓	✓	✓

APPLICATION USE CASES:

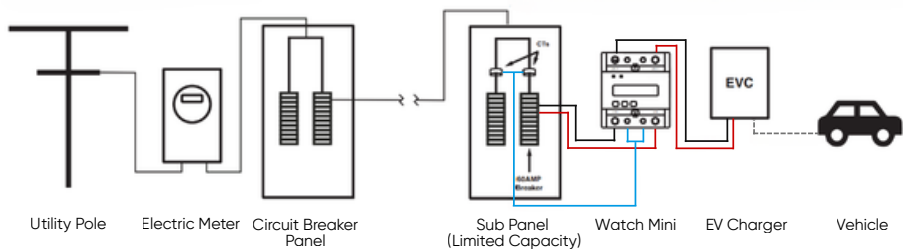
Common Problem: Main panel lacks capacity for a new EV charger and trips the breaker.

Watch Mini Solution: Installs between panel and charger, ensuring the charger only draws power when the panel has headroom.



Common Problem: New load is required downstream of main panel. Subpanel is near capacity. Running a new circuit from the main panel isn't cost-effective..

Watch Mini Solution: Installed between EV charger and subpanel, it prevents overload by only allowing charging when capacity is available.



TECHNICAL SPECIFICATIONS

Model Name	Watch Mini
Model Number	EA60-MSM
Application	EV charger load management on panels up to 400 A
Controlled Load Rating	Up to 60 A continuous
Compatible Panel Types	Main or sub panels
Circuit Support	120 VAC (single pole) or 208–240 VAC (double pole)
Power Supply	Self-powered from line-in; no external supply required
Enclosure Options	Standard: Polycarbonate NEMA 3R; Optional: NEMA 01, 03, 04 steel or stainless
Current Transformers (CTs)	Standard: 250 A split-core CTs; Optional: 100 A or 500 A (at added cost)
CT Leads	12' pre-wired, shielded #18 AWG UL-approved leads
Control Method	Precision field-adjustable setpoints; Magnetic latching relay
Key Adjustable Set Points	Panel overload amperage (CF); Overload cutoff delay (OD); Restore amperage threshold (LC); Load restore delay (LD); CT line-loss compensation (CC)
Display	LCD showing real-time amperage from CTs
Installation Requirements	Requires open breaker; install between panel and EV charger
Operating Temperature	–40°C to 85°C (–40°F to 185°F)
Programming Access	Push-button LCD interface with password protection (optional)
Torque Specifications	10–14 AWG: 35 in-lbs; 8 AWG: 40 in-lbs; 4–6 AWG: 45 in-lbs; 2–3 AWG: 50 in-lbs
Dimensions (W x H x D)	241.3 mm x 177.8 mm x 101.6 mm (9.5 in x 7 in x 4 in) (polycarbonate enclosure)
Warranty	3 years
Standards & Compliance	UL Listed (cULus)