



WATCH MULTI

Dynamic EV Charger Power Management for Individually Metered Condos

The Watti Watch Multi™ is a suite-level electrical monitoring solution designed for condo and multi-residential EV charging applications where charger power allocation must be tied to individual residential unit meters. The system monitors real-time electrical demand at each assigned condo unit feeder or meter and dynamically adjusts EV charger output based on the available electrical capacity of the associated residential unit.

A single Watti Watch Multi system can be connected to and manage up to 24 suites or mains, enabling scalable EV charging in shared parking garages without requiring dedicated high-capacity feeder runs from suites to parking spaces.



Individual Suite Load Management

Monitors electrical demand at the condo unit level rather than the building house service - on up to 24 suites or mains.



Supports Meter-Assigned EV Charging

Allows EV chargers to operate based on the available capacity of the associated residential unit.



Avoids Costly Electrical Infrastructure Upgrades

Reduces the need for upgrading the electrical service.



Scalable for Growing EV Adoption

Supports phased EV charging deployment across condo and multi-residential properties.



IDEAL APPLICATIONS

- Condo buildings with suite-meter-based EV allocation
- Multi-residential retrofit projects
- Individually assigned resident EV chargers
- Buildings where chargers are not connected to the house/common meter

Watti Watch Multi is intended for projects where EV charger electrical allocation must be tied to individual condo unit electrical meters. For projects where EV charging is connected to the building house/common service, Electric Avenue offers alternate monitoring solutions.

HOW IT WORKS

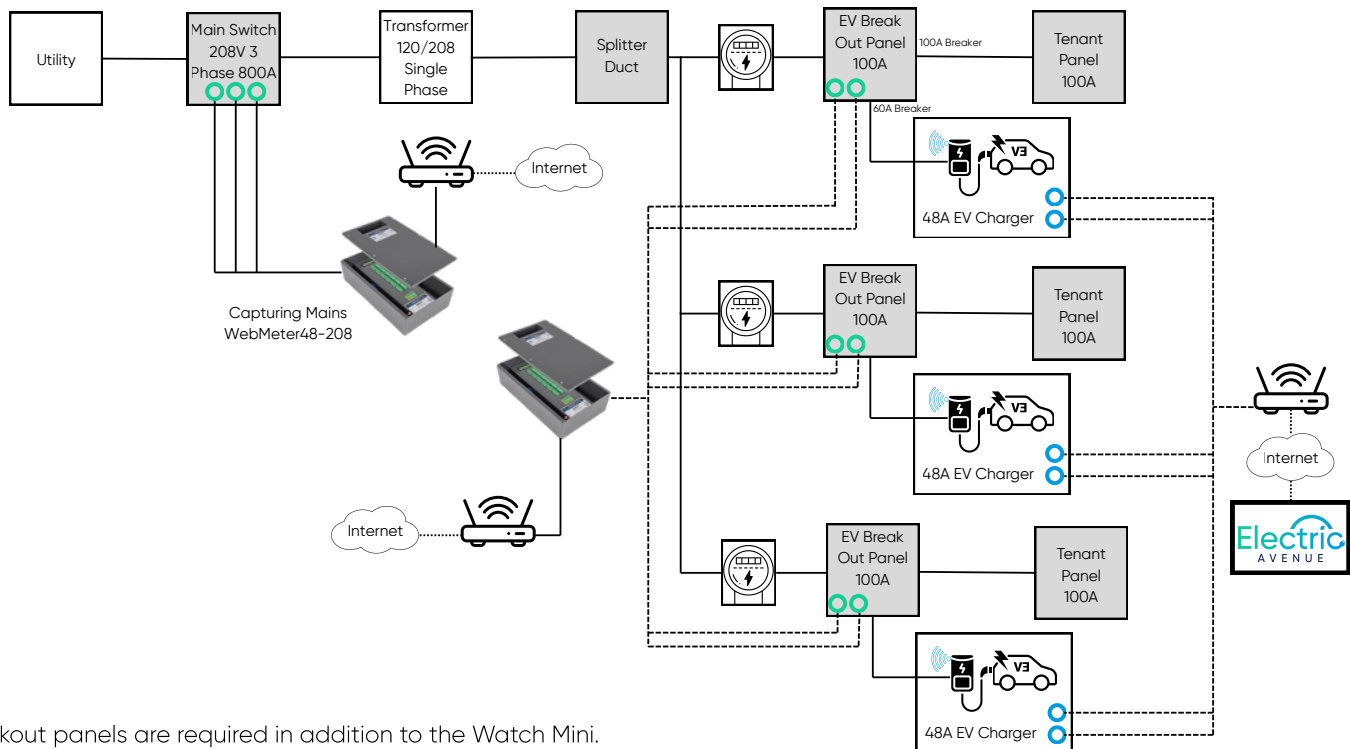
- Watch Multi monitors electrical demand at an individual condo unit feeder or meter.
- Live usage data is securely transmitted to the Electric Avenue cloud platform.
- Electric Avenue calculates available charging capacity for the assigned residential unit.
- Charging power is dynamically adjusted at the connected EV charger.
- Charger output automatically responds to changing electrical demand to help prevent circuit overloads.

TECHNICAL SPECIFICATIONS

Model Name	Watch Multi
Model Number	EAWMUMS24
Metering & Capacity	
Inputs	Up to 48 CT and/or pulse inputs (any combination of 1Ø / 3Ø circuits)
Data Points	Up to 334 data points (current, voltage, real power, energy, power factor, reactive & apparent power, runtime, etc.)
CT Range	40A – 6000A (mA self-shortening CTs)
Pulse Inputs	Compatible with third-party utility meters (water, gas, steam, BTU) via pulse inputs
Sampling Rate (Voltage)	200,000 samples/second
Sampling Rate (Current)	12,500 samples/second
Accuracy & Compliance	
Accuracy Class	ANSI C12.20 – 0.2 Accuracy Class
Safety Certifications	UL 61010-1, UL 61010-2-030
Canadian Compliance	CAN/CSA C22.2 No. 61010-1 & 61010-2-030
Additional Certifications	CE, RoHS compliant
Dielectric Strength	5.4 kV (5 sec), 3.6 kV (60 sec)
Electrical Compatibility	
Voltage Range	240–600 VAC (L-N)
Supported Mains	208V, 240V, 380–415V, 480V, 600V
Power Systems	1Ø / 3Ø (Wye, Delta, Split-Phase)
Frequency	50–60 Hz (600V = 60 Hz)

WATCH MULTI

Connectivity & Data	
Network Interface	Ethernet (RJ45, Cat5e T568B)
Communication Protocol	Fully encrypted UDP
Reporting Interval	Data transmitted every 2 seconds
Configuration	Cloud-based software setup
Firmware	Automatic remote updates
Remote Verification	Automated waveform capture and CT phase/orientation validation via monitoring system
Data Storage & Reliability	
Offline Memory	1-year onboard storage @ 15-minute intervals
Clock Backup	24-hour backup via rechargeable capacitor
Installation & Wiring	
Enclosure	Standalone enclosed meter for adjacent panel mounting
Mounting	Four-point screw mounting
Conduit Entry	Pre-punched knockouts on three sides
Wiring Termination	Push-in spring clip connectors (CT, voltage, pulse inputs)
Environmental & Mechanical	
Operating Temperature	-30°C to +70°C
Storage Temperature	-30°C to +70°C
Humidity	10–80% non-condensing
Dimensions (L x W x D)	40.94 x 23.16 x 11.27 cm (D)
Weight	640 g (1.41 lbs)



*Breakout panels are required in addition to the Watch Mini.