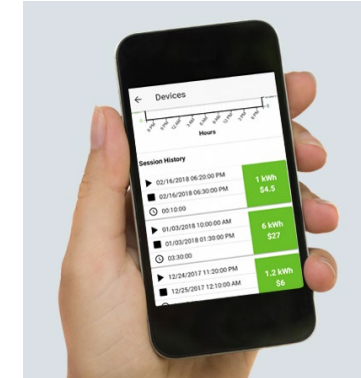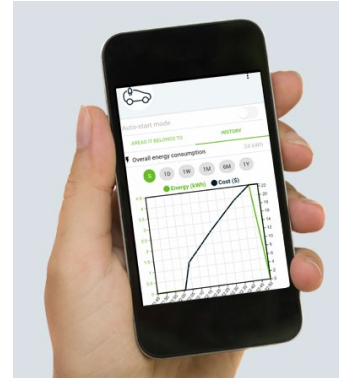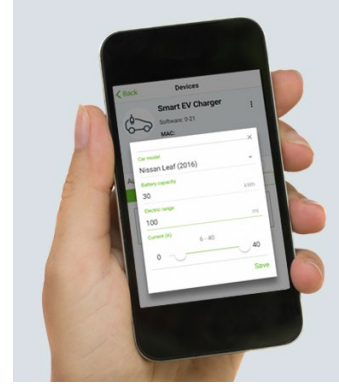# SmartElek EVSE Features

- Automatic L1 and L2 operation (16/20/30 Amps) through input voltage detection
- Small size (4.5" X 3.5" X 2.25"), outdoor-rated case and 25' cord allow portable or fixed installation
- Built-in metrology with better than 1% accuracy
- Designed to strictest UL standards (certified by ETL/Intertek)
- Multiple radio connectivity (built-in Zigbee 3.0, WiFi and BLE plus optional LoRa and LTE-M1/NBIoT) provide ultimate remote manageability
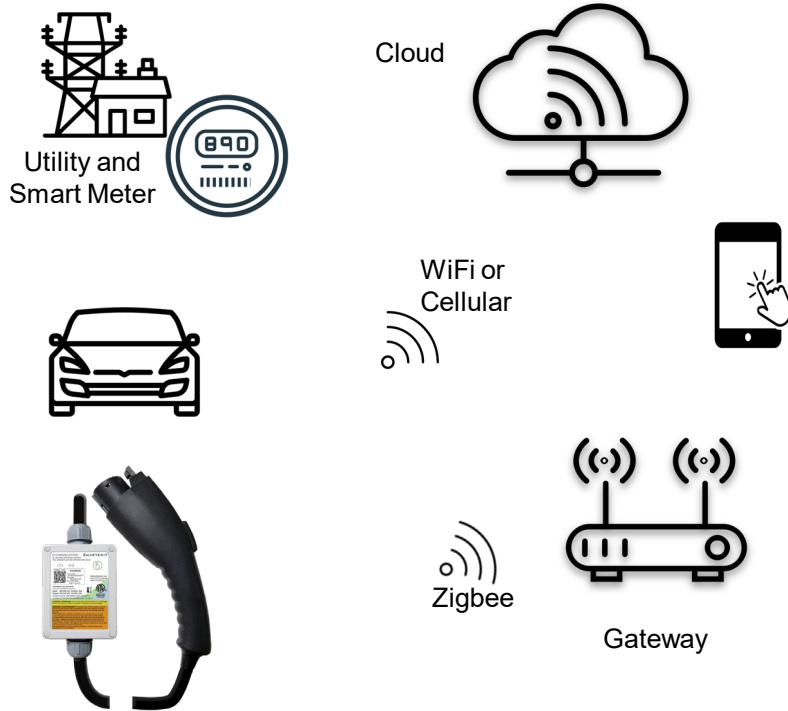

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Typical Mobile App End User Interaction

- Set electric rates from utility bill or utility API/Portal
- Commission EVSE and Set EV profile
- Set automation rules
- Manage device (start charge, stop charge, see consumption, change schedules)
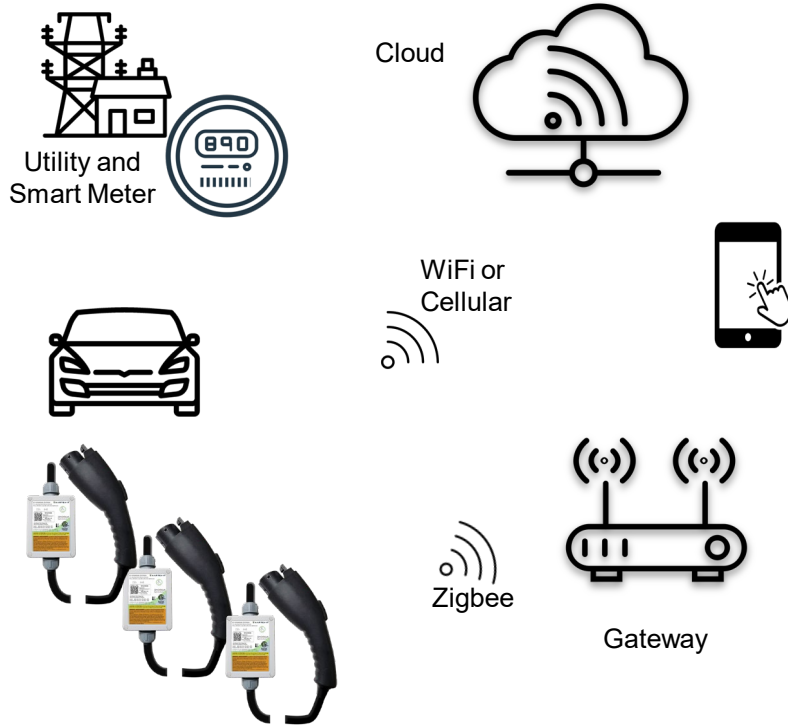- See/monitor historical consumption and cost

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SmartElek Single EVSE Managed Use Case

Utility and Smart Meter

Cloud

WiFi or Cellular

Zigbee

Gateway

- All user conveniences remain in place
- Optional DER management by Utility via Smart Meter, Gateway or Cloud
- SmartElek able to respond to events such as DR, FR, Price, etc.
- Built-in metrology enables real-time confirmation of load curtailment

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SmartElek Multiple EVSE Management Use Case

Utility and
Smart Meter

Cloud

WiFi or
Cellular

Zigbee

Gateway

- Ability to manage energy supply to multiple chargers
- Ideal for multi-vehicle residential and work-place charging
- Managed autonomously with an EVSE nominated as network controller or externally
- Gateway functionality implemented by SmartElek itself with optional redundancy for highly reliable networking

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