SECTION 5

Application Setup

Siemens is proud to offer industry-leading control and monitoring functionality built into the VersiCharge product.

1. **Smartphone Application.** This is the preferred method for VersiCharge charger owners with 10 or less chargers per account. Search for Sifinity Go in the App Store for the iOS operating system (for iPhone owners) or in the Google Play Store for the Android operating system. Download the application.
2. **PC Application.** The VersiCharge Configuration Tool is the preferred method for VersiCharge owners and installers that are commissioning multiple chargers, such as with parent-child configurations.

NOTE: In case of a Wi-Fi network failure, the charger will continue to function based upon the registered state. If the schedule function is enabled, it will continue to run indefinitely. All demand response settings will be saved. User interface functionality will remain the same.

5.1 Mobile App User Registration

NOTE: If the charger is moved or ownership changes, it must be deregistered prior to recommissioning. Deregistering the unit can be done through the mobile app or VersiCloud for multiple chargers.

- Install the Sifinity Go mobile application from the Google Play Store or Apple App Store (ensure you have an internet connection on your VersiCharge). Upon opening the app, follow the prompted instructions to create an account and set up your charger(s), if you are configuring 10 or fewer charges per your account. The web app (https://www.versichargesg.com/Account/Login?ReturnUrl=%2f%20) and smartphone app follow the same steps.

5.1.1 Create an Account

NOTE: If a charger is moved to another network or if ownership is changed, the charger must be deregistered before recommissioning. The charger will not automatically commission to a new network, but remembers the initially commissioned network.

The following process links your VersiCharge to your chosen wireless network, enabling communication with the Siemens Cloud network.

- Follow next steps to add a charger to your account.

NOTE: Residential 40 A Unit Only - Before beginning to link the charger to an account, ensure the breaker powering the dedicated branch circuit is 'OFF'; plug in the VersiCharge. Turn the breaker 'ON' after plugging the unit in.

- The Power Available LED will turn white and the Wi-Fi Status LED will go through the following process:
  - The indicator should initially slowly blink red, switch to slowly blinking yellow, and then slowly blink white.
  - Once the indicator slowly blinks white, the charger has transitioned to Access Point (AP) mode, will switch to blinking white, and is ready to be connected to a Wi-Fi, LAN or cellular network.

- Once in AP mode, you may use your Sifinity Go mobile app or your laptop to commission the VersiCharge to a network with an open internet connection to establish connection to the Siemens VersiCloud system for management and to receive periodic charger updates.

Wi-Fi LED Light Sequence When Adding a Charger

Description of Sequence	LED Color (Blinking)	LED Color (Steady)
Software loading		
Software running		
Charger in AP mode		
Receiving connection credentials		
Received connection credentials		
Connecting to network		
Connected to network		
Connecting to VersiCloud		
Connected to network, registered and connected to VersiCloud		

NOTE: A gray LED color indicates no lit LED.

SECTION 6

Configure/Commission VersiCharge — Using the Configurator Tool

- Download the Configurator Tool, VersiCharge Configuration Tool Installation Manual, and VersiCharge Configuration Tool Manual from usa.siemens.com/versichargecommercial.
- Unzip the Configuration Tool and install. Follow the steps for the configuration of VersiCharge. Use the manual for any questions.

6.1 Required Open Ports (for IEC and UL)

Note that these open ports are required for communication with the Siemens Device Management, logging server and OCPP server:

Instance	Domain Name	Ports	Application Layer Protocol	Purpose
IEC	https://versicharge.emobility.siemens.cloud	443, 9019	HTTPS, WSS	Registration, upgrade requests, WebSocket communication
	versichargesgeuprod.blob.core.windows.net	443	HTTPS	Firmware updates
	data.logentries.com	443	HTTPS	Logging
	s-4aef122cd7164396b.server.transfer.eu-west-1.amazonaws.com	22	SFTP	Secondary server for firmware updates
UL	https://versichargesg.com	443, 9019	HTTPS, WSS	Registration, upgrade requests, WebSocket communication
	versichargesg.blob.core.windows.net	443	HTTPS	Firmware updates
	data.logentries.com	443	HTTPS	Logging
	ec2-52-15-74-84.us-east-2.compute.amazonaws.com	22	SFTP	Secondary server for firmware updates

SECTION 7

HMI

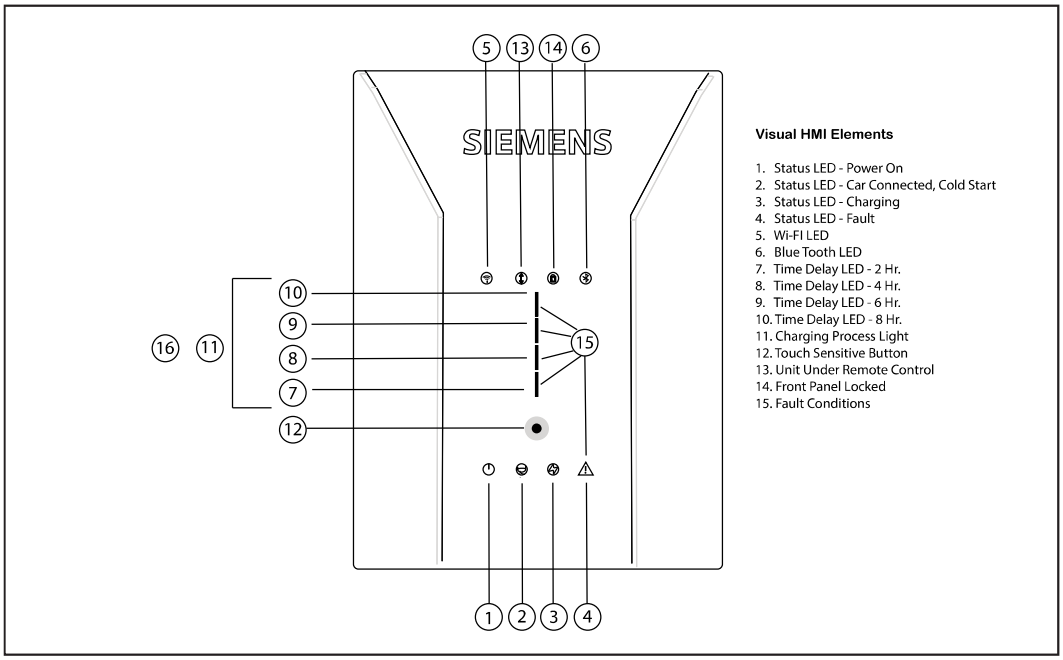

Figure 18. Residential HMI

NOTE: Number of LEDs may change based on specific part number and features.

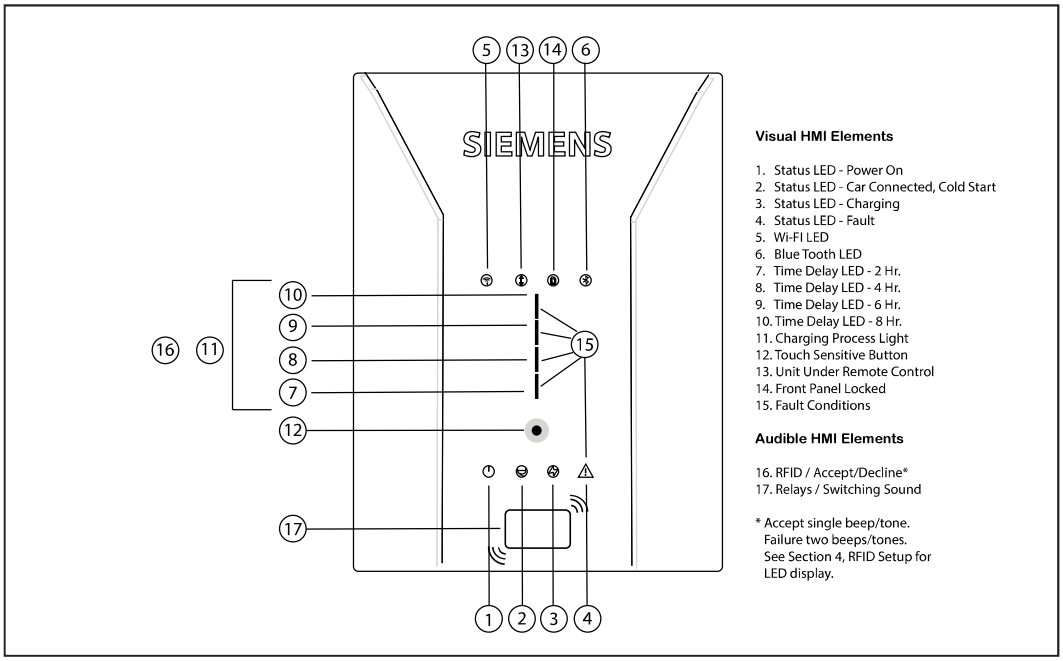

Figure 19. Commercial HMI

NOTE: Number of LEDs may change based on specific part number and features.

- The Power Available LED will turn white and the Wi-Fi Status LED will go through the following process:
  - The indicator should initially slowly blink red, switch to slowly blinking yellow, and then slowly blink white.
  - Once the indicator slowly blinks white, the charger has transitioned to AP mode and is ready to be connected to a Wi-Fi network.
- Once in AP mode, you may use your Sifinity Go mobile app or your laptop to commission the VersiCharge to a network with an open internet connection to establish connection to the Siemens VersiCloud system for management and to receive periodic charger updates.

SECTION 8

Operating VersiCharge

8.1 LED Light Display

Display	Description	Action
Normal Operation		
 Applicable to commercial units, only if RFID is enabled.	Charger is locked.	Pass the RFID card in front of the reader to unlock and begin charging.
 Applicable to commercial units, if RFID is enabled.	Charger is unlocked.	Enable RFID authentication. To unlock, pass an RFID card over the RFID reader. NOTE: The charger is in the unlocked state by default.
 Lights up white	Charging station is ready.	
 LED off	Charging is paused.	Charging can be resumed through the Sifinity Go mobile app.
 Lights up white	Vehicle is connected.	
 Lights up white	Charging in progress.	
 Flashes white	After switching on, the charger will go to Access Point mode.	Connect PC or mobile device for commissioning, charger is ready to be added to the account.
 Lights up red	No Wi-Fi.	Check the router.
 Lights up orange	Charger is connected to router. Weak Wi-Fi.	Strengthen the Wi-Fi.

Display	Description	Action
Normal Operation		
 Lights up green	Charger is connected to router. Strong Wi-Fi.	
 Flashes blue	Attempting to connect to VersiCloud.	
 Lights up white	Ready (with successful connection and registration in VersiCloud)	
	Access blocked	Unlock via RFID / OCPP / Modbus / Sifinity Go mobile app.
 Flashes white	2-hour delay	Wait until the charging process starts.
 Flashes white	4-hour delay	Wait until the charging process starts.
 Flashes white	6-hour delay	Wait until the charging process starts.
 Flashes white	8-hour delay	Wait until the charging process starts.
	Press the Touch Sensitive button to add a time delay.	Press the Touch Sensitive button once for a 2-hour delay, twice for a 4-hour delay, three times for a 6-hour delay and four times for an 8-hour delay.

Display	Description	Action
Fault Status		
	Press the Touch button for 5 seconds for maximum charging power. Press once for ground fault reset.	Power presetting is set to the maximum for the charging process.
	*A fault has occurred.*	The device is in a fault state. Eliminate the fault and then push the touch button and hold for 5 seconds to reset.
Ground fault		
	Random delay between 1-5 minutes on power cycle if EV is connected. EVSE will resume charging after delay expires.	No action is needed.
Cold start - lights up steady white		

8.1.1 Troubleshooting Tips

If the LED faults on the Siemens VersiCharge begin to flash after the unit has already been commissioned, attempt to resolve the issue by power cycling the unit.

If the LEDs continue to flash after power cycling the Siemens VersiCharge, the unit must be returned to Siemens for replacement. Please reach out to customer support at 855-950-6339, option 9, to begin the replacement process.

8.2 VersiCharge Operation

Safety instructions during the charging process

DANGER Risk of electric shock and fire. Touching live parts may cause electric shock or even death. Defective connectors or cables may cause fire.

- Do not kink or squeeze the charging cable. Do not draw the charging cable over sharp edges or hot surfaces.
- Do not use the charging station if damage or tampering is visible. If damage is visible, inform the operator. Until damage is repaired, keep away from the charging station and do not attempt to charge an EV.
- Grip the power plug/connector to disconnect from the charging unit. Do not remove the connector by pulling on the cable.
- Never touch the power plug/connector with wet hands.
- Do not connect or disconnect any cables during a thunderstorm.

Risk of overheating and fire

Unauthorized accessories should not be used with the VersiCharge due to risk of fire and/or overheating.

- Do not use a charging cable that is not approved for the vehicle.
- Do not use an extension to connect the charging station to the vehicle.
- The utilization of adapters or extension cables is not allowed by the charging standards and is not recommended; it therefore is the sole responsibility of the cable or adapter provider.

CAUTION! Risk of accident. Ensure that the charging cable does not block an exit or pose a tripping hazard. Ensure the cable cannot be ripped out of the charging station.

8.2.1 Basic Procedure

- Using the charger connector, gently insert the connector into the EV. Be sure not to force the connection or bend any pins in the connector.
- Check the charger "Lock" light (see Figure 19, commercial chargers only); when lit, the front panel is locked and will not begin charging. Pass a user RFID card in front of the reader to unlock and begin charging. The "Lock" light will be off.

  RFID authentication is successful when the Charging Process Light flashes twice from the bottom up and there is an audible tone. RFID authentication is not successful when there are two audible tones.
- If RFID authentication is successful, charging will begin automatically.
- If a delay is needed, press the Touch Sensitive button once for a 2-hour delay, twice for a 4-hour delay, three times for a 6-hour delay and four times for an 8-hour delay. Once the delay is selected, charging will begin automatically after the delay countdown.

  NOTE: The delay function is not supported using the Touch Sensitive button if the charger is configured for OCPP communication or if RFID is enabled.

Set a delay by pressing the Touch Senstive button or by using the Sifinity Go mobile app.

Press 1x for 2-hour delay

Press 2x for 4-hour delay

Press 3x for 6-hour delay

Press 4x for 8-hour delay

NOTE: The LED bar display indicates that current is flowing to the vehicle and the vehicle battery is charging. The LED bar display is off in the following cases:

- The vehicle is not drawing power.
  – The charging unit pauses, for example, because of load management.
  – The vehicle pauses the charging.
- Charging is completed.

- Once charging is completed, the "Ready" status light turns off.
- Carefully remove the connector from EV and stow the cable in the cable holster to prevent damage to either the cable or connector.

8.2.2 Start Charging - RFID Feature

Proceed as follows to begin charging:

- Check that the charger is ready for operation: The Power LED must be lit and white.
- Register an RFID card on the device.
  – If the RFID function is activated on your device, hold your RFID card in front of the card reader. An acoustic signal should emit.
  – Register on the device with a method supported by the operator; for example, via an app.
- Open the EV connection cover and insert the charger connector into EV socket. Make sure that the connector pins are not bent or damaged before inserting into the EV socket.
- The device will lock the plug into the socket. The "Vehicle connected" LED will light up.

NOTE: LED lights indicate the charger status:

Vehicle connected. LED lights up white.

Charging in progress. LED lights up white.

Charging completed.
Charger is ready. LED lights are off.

After successful authorization, charging will begin automatically unless a delay has been set.

NOTE: The communication connection to the vehicle is established. This process may take some time depending on the connection speed and response speed of the backend (such as VersiCloud) and vehicle.