SIEMENS



Human Machine Interface (HMI)

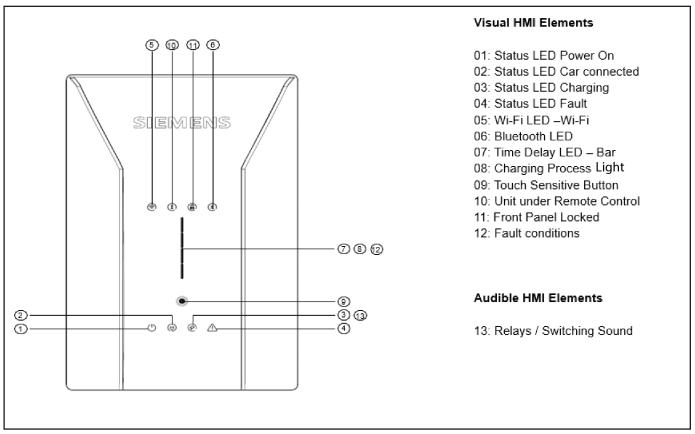


Figure 1. Residential HMI

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

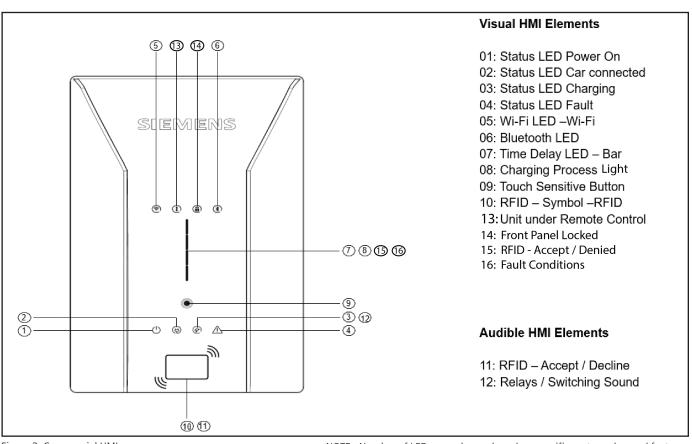


Figure 2. Commercial HMI

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

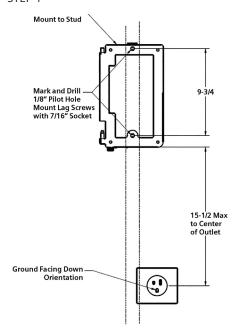
Installation kit

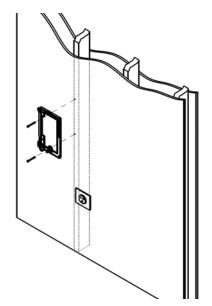
Equipment List Standard Installation - What you will need: **Certified Electrician (Recommended)** Cordless Drill (Phillips Bit with extender) **Stud Finder** 240 V AC Voltmeter NEMA 6-50 Outlet (Only used for the 7/16" Socket wrench 40A charger P/Ns 8EM1312-4AF10-0AA3, 8EM1312-4CF18-0FA3.) Screwdriver #6 75C copper wire should be used for 40A charger requires a 2-pole, 240V, 48A charger and #8 75C copper wire 50A circuit breaker. 48A charger requires should be used for a 40A charger. a 2-pole, 240V, 60A circuit breaker. NOTE: 1. Wire must have a temperature rating of 75C or higher). 2. Do not set the amp switch higher than 40A unless hardwired to a dedicated 60A branch protection circuit breaker.

Kit Supplied Equipment 1 - ModBus Connector SIEMENS Augustally for Gift. 1 – Mounting Bracket 1 – Cable Holster 2 - Admin Cards 5 – User cards 1 – #8 x 2-1/2" Flat Head 2 - Lag Screws, Hex Head Tamper resistant 5/32" Allen 3 – #10-32 X 3/8", Tamper screws, 1/4 x 2" (for wrench (secure the charger) **Drywall Screw (for securing** Resistant, Pin-In Hex Socket securing the mounting the holster to the wall stud) **Button Head Cap Screw** bracket to the wall studs) (secure the charger) 2.3 Alternate Installation – What you will need (screws and anchors are not included in the VersiCharge installation kit): 5 – #12 x 1-1/2 LG Phillips head Ø.375 head minimum, with 5 - #12 wall anchors (NOTE: wall anchors must be rated for 61 lbs. for 1/2" dry wall).

Bracket Mounting:

STEP 1





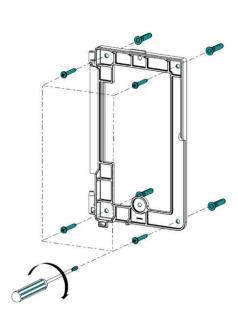


Figure 3. Bracket Position

Figure 4. Wall Mounting

Figure 5. Alternate Bracket Mounting

Charger Mounting:

STEP 2

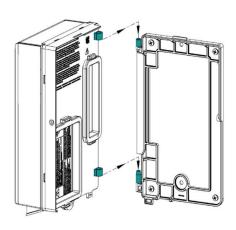


Figure 6. Hanging Charger

STEP 3

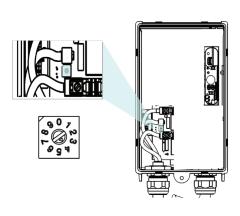


Figure 7. Amp Switch Setting

STEP 4

STEP 1A

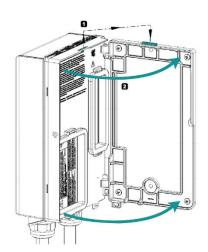


Figure 8. Close Charger

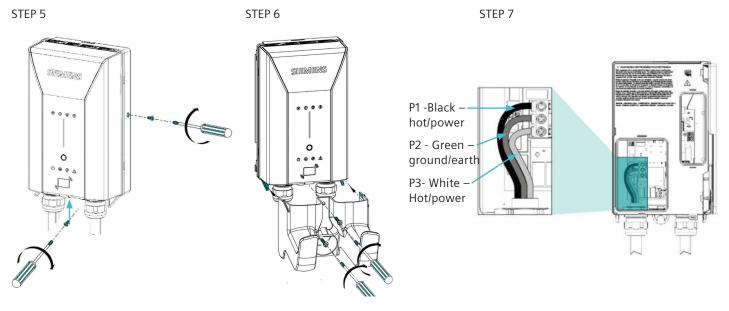


Figure 9. Secure Charger (Optional)

Figure 10. Holster Installation

Figure 11. Charger Hardwiring See Appendix C for wire bending diagram.

Figure 14. Serial RS485 ModBus Connection*

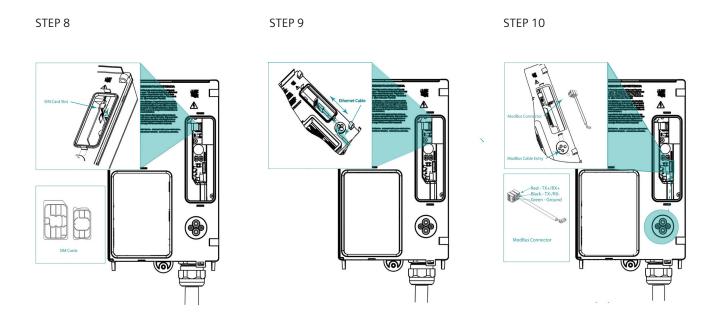


Figure 13. CAT6 Ethernet Port Connection**

Figure 12. SIM Card Installation*

^{*}This feature is only available on Commercial Units.

^{**}This feature is available on both Residential and Commercial Units.

STEP 10B (See below for applicable part numbers)

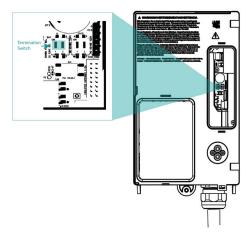


Figure 15. Commercial ModBus Termination Switch*

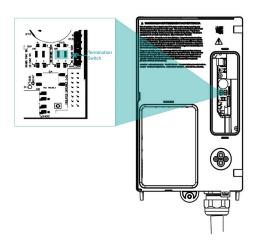


Figure 16. ModBus Termination Switch*

STEP 11

External Remote Control Interface

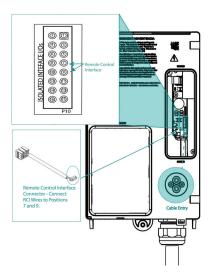


Figure 17. External Remote Control Interface**

^{*}This feature is only available on Commercial Units.

^{**}This feature is available on both Residential and Commercial Units.

Optional	Outlet Installation						
STEP 1	Standard Mounting	1. Locate a stud within the	wall that can handle the 17+ lb. (7.7+ kg) load of the VersiCharge.				
	(Recommended)	2. Place the mounting bracket not more than 12" (30 cm) above a 240 V outlet; level the mounting and drill the center-top hole using the drill with an extender.					
		3. Secure the mounting with the kit-supplied screws.					
		4. Drill the bottom hole using the bottom-center mounting hole as a guide.					
		5. Secure with the kit-supplied screw.					
		6. Tighten both top and bottom screws securely.					
		For concrete cinder block walls, install appropriate anchors. If using an existing outlet, ensure that power cord will reach to the outlet. Using a 7/16" socket, attach mounting bracket to wall in compliance with all Canadian Electrical Code (CEC) and local jurisdiction requirements, using the 2 lag screws provided.					
STEP 1A	Alternate Mounting	NOTE: Anchor Rating: 5 anchors must be rated as 61 lb. (28 kg) anchors rated for 1/2" dry wall .					
		The VersiCharge can be mounted using 5 - #12 x 1-½ LG Phillips head 0.375 head minimum with 5 - #12 wall anchors.					
		1. Locate the mounting bracket not more than 12" (30 cm) above a 240 V outlet or if hardwiring, the wiring will come through thebottom of the charger.					
		2. Level the mounting bracket and drill 4 holes, one in each corner of the bracket.					
		3. Place anchors into the wallboard until they are flush with the wall.					
		4. Place the mounting bracket over the holes (hinges facing upward, flat side of the bracket against the wall) with the anchors and screw the mounting to the wall securely.					
		5. Add a 5th hole for mounting the holster once the unit is mounted on the wall. Place the holster on the wall and mark the correct position for the hole. Refer to Step 6 and its graphic.					
STEP 2	Install/Mount Charger	Mount Charger NOTE: For installation, the mounting-bracket hinges will be pointing to the ceiling, and the flat side of the					
		to the hinges.					
		2. Rotate to the right until the unit clicks and is closed.					
		n the locking mechanism and plug the VersiCharge into the 240 V outlet. If hardwiring the in Step 7.	e unit,				
STEP 3	Set Amp Switch	serious inju equipment. voltage courequired wireferenced.	azardous voltage. Will cause death or Iry. Turn off power before working on this This indicates a situation where the present Ild cause injury or death. Extreme caution is nen servicing or installing the equipment to the maximum of the model purchased (i.e. a 40 amp model will not exceed 40 amps but by using the amperage adjustment dial). See Figure 7.	ut may be			
		Switch Position	Amps				
		0	12				
		1 2	16				
		3	32				
		4					
		5	40				
		L	itch higher than #5 will cause a bad switch fault.				
CTED 4	Class H. Cl	3	•				
STEP 4	Close the Charger	l					

STEP 5	Secure Charger	 Using the 3 - #10-32 X 3/8", Tamper Resistant, Pin-In Hex Socket Button Head Cap Screw (Tamper-resistant alternative) secure the VersiCharge cover with one screw on the right side of the VersiCharge to bolt the cover closed. Secure the holster with one screw at the top of the holster where it connects to the VersiCharge cover. For more holster installation information, see Step 6 below. Secure the cover with the third screw at the bottom of the VersiCharge just above the holster.
STEP 6	Install Cable Holster	Align the holes in the holster and screw securely to the wall. Place EV connector cable in the holster.



DANGER Hazardous voltage. Will cause death or serious injury. Turn off power before working on this equipment. This indicates a situation where the present voltage could cause injury or death. Extreme caution is required when servicing or installing the equipment referenced.

NOTE: Any time the interior wiring is exposed while there is power to the unit there is danger of hazardous voltage and serious injury.

STEP 7	Hardwire the VersiCharge (Skip if using an existing 240 V outlet)	Open the VersiCharge and expose the wiring, unscrew the lugs and remove the plug.				
		Loosen screws on lugs.				
		Back out wires. Install new wiring.				
		NOTE:				
		1. When installing the hardwired VersiCharge, power connections shall be made at line terminals with 14.5 in-lb. torque driver.				
		The rating of the circuit breaker that will be required is based on the ampere rating of the EVSE; 40A requires 50A breaker, 48A requires 60A breaker. Plug removal is only necessary when hardwiring VersiCharge.				
		4. When removing Stop cap to hardwire, the unit will no longer be rated NEMA 4 unless replacing the Stop cap with an approved cable gland.				
STEP 8	SIM Card Installation (Commercial Units Only)	SIM Card General Information				
		This hardware uses a micro SIM card, but with an adapter will allow nano SIM cards.				
	Part numbers:	The SIM card should NOT require a PIN. Locked SIM cards are not supported by VersiCharge hardware.				
	8EM1310-4CF14-1GA1, 8EM1310-5CF14-1GA1	The following carriers are supported: AT&T, T-Mobile and Rogers. Data plans should have a minimum consumption of 2 MB per month per charger				
		Expose the area holding the SIM card hardware by unlatching the cover (see Figure 11). The SIM card sits next to the Ethernet connection (see STEP 9). Slide the micro SIM card into slot. (SIM card to be supplied by the service provider).				
		The SIM card socket is spring loaded. Slide the SIM card from the bottom upward into the slot until it stays in place.				
		To remove/replace the SIM card, press the SIM card upward and it will "spring" down and out of the slot.				
STEP 9	Connect Ethernet (Residential and Commercial Units)	NOTE: The Ethernet cable connector should NOT be on the Ethernet cable when it is pushed through the rubberized gland. This gland will not self-seal if the connector is pushed through the rubberized gland and the NEMA 4 rating will be lost.				
		Push the Ethernet cable through the rubberized gland and snake it up through the back to the opening. Connect the				
	Part numbers: 8EM1312-4CF18-0FA3, 8EM1312-5CF18-0FA3, 8EM1310-4CF14-0GA0, 8EM1310-5CF14-0GA0, 8EM1310-4CF14-1GA1, 8EM1310-5CF14-1GA1	Ethernet connector and insert the connector from the bottom up into the Ethernet connection.				

STEP 10	Connect ModBus RS485 (Commercial Units Only) Part numbers: 8EM1310-4CF14-0GA0, 8EM1310-5CF14-1GA1, 8EM1310-5CF14-1GA1	NOTE: The ModBus connector should NOT be on the Modbus cable when it is pushed through the rubberized gland. This gland will not self-seal if the connector is pushed through the rubberized gland and the NEMA 4 rating will be lost. 1. Using the supplied ModBus connector gently press the connector into place (see Figure 14). 2. Push the external ModBus cable through the rubberized gland at the back of the charger (this will self-seal). Attach the external wires to the internal wire connector. 3. Gently tuck the wiring into the space and secure the back of the charger. Security Note: The ModBus RTU is an open protocol, and it is the responsibility of the installer to ensure the security of the wiring of these connections to prevent tampering.			
STEP 10A	Set ModBus Termination Switch (Commercial Units Only) Part numbers: 8EM1310-4CF14-0GA0, 8EM1310-5CF14-0GA0, 8EM1310-4CF14-1GA1, 8EM1310-5CF14-1GA1	SW3-1 (left side) labelled A8 RS485 is the Termination switch. This switch should be in the ON position for the Parent unit or in the OFF position for a Child unit, unless that Child is the last Child in the daisy chain, then it must be ON. NOTE: For more detail on the ModBus and the Termination Switch position settings, refer to the complete VersiCharge AC Series Installation and Operation Manual at www.usa.siemens.com/versicharge.			
STEP 10B	Set ModBus Termination Switch (Commercial Units Only) Applicable to Child units ONLY with the following part numbers: 8EM1310-4CF14-0GA0, 8EM1310-5CF14-0GA0	SW3-2 (right side) labelled M0 RS485 Term is the Termination switch. For the child units the Termination switch must be set to OFF, unless the unit is the last one in the daisy chain, then the switch must be set to ON. NOTE: For more detail on the ModBus and the Termination Switch position settings, refer to the complete VersiCharge AC Series Installation and Operation Manual at www.usa.siemens.com/versicharge.			
STEP 11	Connect External Remote Control Interface – (Optional) (Commercial and Residential Units) Part numbers: 8EM1312-4CF18-0FA3, 8EM1312-5CF18-0FA3, 8EM1310-4CF14-0GA0, 8EM1310-4CF14-1GA1,	The Siemens VersiCharge has a Remote Control Interface that allows charging to be controlled by an external device. Examples include demand response switches, building automation systems, digital sensors, etc. To wire a digital input into the dry contact in the connection area located inside of the VersiCharge, please refer to the complete VersiCharge AC Series Installation and Operation Manual at www.usa.siemens.com/versicharge for more detail. When the external contact is closed, the alternate input will control the VersiCharge, preventing it from entering the 'Charging' state. The status output is a switch that indicates charging status. When the contacts are closed, the unit is in charging state.			
	8EM1310-5CF14-1GA1	Pin # Lal	bel	Description	
		7 Uti	lity_1	Utility lockout (dry contact input; locked when closed)	
		9 Uti	lity_2		
STEP 12	Check the System	Turn the power on; the white Power Available light should illuminate. If it does not, verify that the outlet or wire is putting out 240 or 208 V using the voltmeter. With the Power Available light on, plug the Electric Vehicle Supply Equipment (EVSE) cable into the car. If you have any fault lights, please see the HMI figures in the beginning of this manual. Siemens VersiCharge Mobile App: Download the VersiCharge mobile app to your smartphone to get started using your charger. Find these applications at either Google Play (https://play.google.com/store), or iOS stores (https://www.apple.com/ios/app-store/). Siemens Commercial Charger Configuration Tool (PC App): Download the Configuration Tool (PC application) to configure and manage your commercial charger at www.usa.siemens.com/versicharge.			

Maintenance

While there is no maintenance for the internal works of the VersiCharge, the exterior does require some basic, common sense maintenance. The following maintenance can be performed by the owner/user. All other service must be conducted by qualified personnel.

If there is any damage to the charger, contact your supplier.

General exterior maintenance is recommended to be performed every six months depending on the environment. In harsh environments, maintenance should be performed more often.

General exterior maintenance

Regular cleaning is recommended to avoid accumulation of debris/dust/dirt on or around the unit. Wipe surfaces with a soft cloth dampened with water, or for harder to removed marks, use an alcohol based cleaner. Do not spray with high pressure cleaning hoses or use abrasive chemicals.

General external checks

Check for cuts, cracks, damage, and debris. If debris is present, remove it. If you find damage, contact your supplier.

Check for damage and corrosion. If present, contact your supplier.

Check the HMI for damage/signs of faded color that is clearly visible.

Ensure there is no debris or damage inside or around the cable, cable holder and connector/plug. If present, remove debris and/or notify the supplier of any damage. Check the connector/plug pins for any signs of corrosion and contact the supplier, if there is any damage to the pins.

Check for snow buildup around the VersiCharge and clear the area around the VersiCharge. This should be checked daily in areas with high snowfall.

APPENDIX A.- System Operation/Faults

Light State	Description	Solution				
Normal Operation						
Light #1	#1 Ready to Charge – Power On – light steady white	Connect EV. Begin charge.				
Light #2	#2 Car Connected -	Disconnect the EV connection				
	Light steady white	cable.				
Light #5	#5 Wi-Fi Status – No Wi-Fi-	Check router.				
Light #3	Light flashing red					
Light #5	#5 Wi-Fi Status – Wi-Fi Weak –	Consider using a Wi-Fi extender				
Light #5	Light flashing orange	to boost the signal.				
Light #5	#5 Wi-Fi Status - Wi-Fi Strong –	No Action				
Light #5	Light flashing green					
Light #7	#7 Time Delay Light - Delay 2 hours – Light flashing white	Wait for charge.				
Light #7	#7 Time Delay Light - Delay 4 hours – Light flashing white	Wait for charge				
Light #7	#7 Time Delay Light - Delay 6 hours – Light flashing white	Wait for charge				
Light #7	#7 Time Delay Light - Delay 8 hours – Light flashing white	Wait for charge				
Light #9	#9 – Touch Sensitive Button – Press Button for 5 seconds to maximize power level.	Cancel the remote power setting by pressing button 5 seconds continuously and maximizes Power.				

Light State	Description	Solution			
Faults					
Light #9	#9 – Touch Sensitive Button – Reset Ground Fault – Press once to reset the unit.	The unit is in a fault state. Press one time to reset the ground fault.			
Light #4	#4 Fault occurring –	Power cycle/turn breaker off and then on			
Light #7	Light flashing red	and then on			
Light # 4	#4 + #7 (4 hr. delay light) –	Call Tech Support			
Light # 7	Lights steady red				
Light # 4	#4 + #7 (2 hr.+4 hr. delay light) –	Call Tech Support			
Light #7	Both lights are steady red				
Light #4	#4+ #7 (2 hr. delay light) –	Call Tech Support			
Light # 7	Fault occurring				
Light # 4	#4+ #7 (2 hr. + 6 hr. delay light) –	Call Tech Support			
	Fault occurring				
Light # 7	#4+ #7 (2 hr.+ 8 hr. delay light) –	Call Tech Support			
Light # 4	Fault occurring	Call Tech Support			
Light #7	-				
Light # 4	#4+ #7 (2 hr. + 4 hr. + 6 hr. +8 hr. delay light) –	Call Tech Support			
Light #7	Fault occurring				
Light #4	#4+ #7 (4 hr. delay light) –	Call Tech Support			
Light # 7	Fault occurring				
	#4+ #7 (4 hr. + 6 hr. delay light) –	Call Tech Support			
Light #4	Fault occurring				
Light #7					
Light #4	#4+ #7 (6 hr. delay light) –	Call Tech Support			
Light #7	Fault occurring				
Light #4	#4+ #7 (8 hr. delay light) –	Call Tech Support			
Light #7	Fault occurring				
	#4+ #7 (4 hr. + 6 hr. +8 hr. delay light) –	Call Tech Support			
Light # 4	Fault occurring				
Light # 7					

Steady light –

Flashing light – 🇱

Touch Senstive Button -

NOTE:

Light #1 is the Power Status LED.

Light #2 is the Car Connected Status LED.

Light #5 is the WI-Fi LED status.

Light #4 is the LED Fault light.

Light #7 is the Time Delay LED Light bar with 2, 4, 6, and 8 hour delay lights – some combination of lights 4 and 7 indicate the fault.

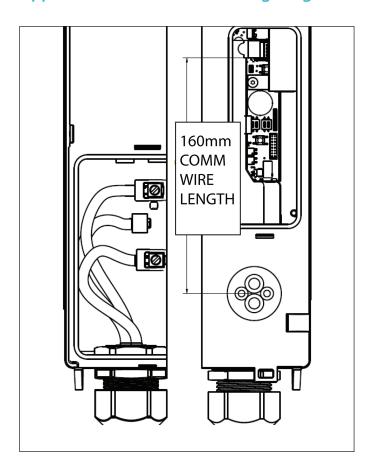
Light #9 is the Touch Sensitive Button.

APPENDIX B – Useful Links

Find the following at: usa.siemens.com/versicharge

- Register your VersiCharge
- Download the VersiCharge Configuration Tool (PC application)
- Configure your VersiCharge
- VersiCharge Frequently Asked Questions
- Detailed VersiCharge Installation and Operating Manual, as well as all legal and warranty information.

Appendix C - Hardwire Bending Diagram



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