

INSTALLATION INSTRUCTIONS

Original issue date: 6/26

Model: **KG80-125R, 150ERESC**

Market: **Residential/Commercial**

Subject: **Cellular Kit, GM125911-KP1-QS**

1 Introduction

The Cellular Kit allows residential/light commercial generator sets to connect to cellular service and communicate with the KOHLER Energy Management System.

The cellular router is preconfigured and factory-tested for connection upon initial installation.

The kit includes a one-year data plan intended solely for generator connectivity. If homeowners choose to connect additional devices to the cellular kit, the manufacturer is not responsible for any resulting increase in data usage.

 **Note:** The following items are **NOT** included in the kit: shielded communication wiring, DIN rail, and self-tapping screws for mounting the brackets.

2 Safety Precautions

Observe the following safety precautions while installing the kit.

WARNING



**Accidental starting.
Can cause severe injury or death.**

Disconnect the battery cables before working on the generator set. Remove the negative (–) lead first when disconnecting the battery. Reconnect the negative (–) lead last when reconnecting the battery.

Disabling the generator set. Accidental starting can cause severe injury or death. Before working on the generator set or equipment connected to the set, disable the generator set as follows:

1. Press the generator set off/reset button to shut down the generator set.
2. Disconnect the power to the battery charger, if equipped.
3. Remove the battery cables, negative (–) lead first. Reconnect the negative (–) lead last when reconnecting the battery. Follow these precautions to prevent the starting of the generator set by the remote start/stop switch.

DANGER



**Hazardous voltage. Moving parts.
Will cause severe injury or death.**

Operate the generator set only when all guards and electrical enclosures are in place.

DANGER



**Hazardous voltage.
Will cause severe injury or death.**

Disconnect all power sources before opening the enclosure.

3 Installation Procedure

3.1 Remove the Generator Set from Service

1. Press the OFF/RESET button on the generator set controller.
2. Press the Emergency Stop (E-Stop) or Prime Mover Shutdown button on the generator set, if equipped.
3. Disconnect AC power to the generator set by opening the upstream circuit breaker (typically located in the customer's distribution box or inside the transfer switch enclosure).
4. Disconnect the generator set engine starting battery, negative (–) lead first.
5. Disconnect the generator set from load by opening the line circuit breaker.

3.2 Install the Cellular Kit

1. Open and/or remove enclosure doors and/or panels as necessary to access the air intake area or the engine compartment. See Section 4 Installation Drawings.
2. Mount the wireless access point using either the DIN-Rail or wall hanging method. The recommended mounting locations on the generator set model are shown in the drawings of the Installation Diagrams section.
3. Mount external antennas. 0.5 in holes will need to be drilled. The recommended mounting locations on the generator set model are shown in Section 4 Installation Drawings.
4. Route and connect antennas to the wireless access point. The recommended routing of wires on the generator set model are shown in Section 4 Installation Drawings.
5. If required, remove the controller or controller cover to access back of the controller.
6. Connect shielded communication wiring (not supplied) from connector P21 on the back of the controller to cellular kit. See Section 5 Connection Diagrams.
7. Reinstall the generator controller or cover if removed.
8. Route and connect the DC power harness to the wireless access point. See Sections 4 Installation Drawings and 5 Connection Diagrams.
9. Connect the ring terminals on the DC power harness to the generator set battery cables. Ensure the wires are connected to the correct battery polarity terminal.
10. Set Modbus Baud rate to 19200 and slave address 1 for cell kit to communicate.

 **Note:** If changing baud rate or slave a reboot of the controller may be necessary for changes to take effect.

Modbus	
Modbus Baud Rate	19200 b/s
Modbus Slave Address	1

Figure 1: Modbus Timeout Factor

11. **If using Remote Serial Annunciator (RSA)**, adjust Modbus Timeout Factor in Modbus section to 30 using SiteTech™. See Figure 2.

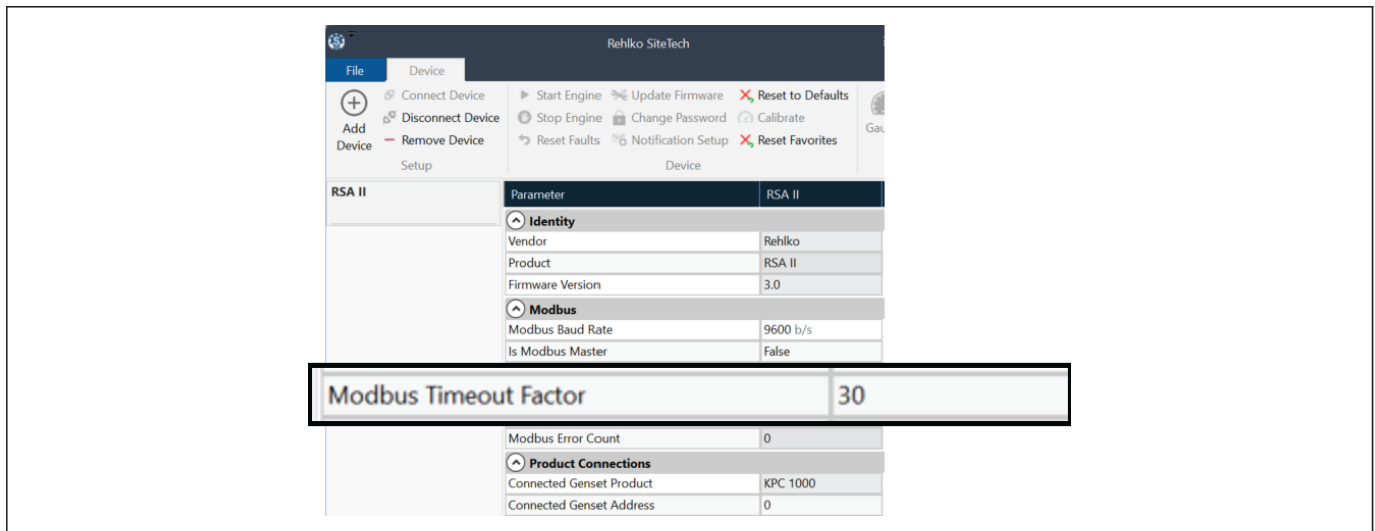


Figure 2: RSA Modbus Timeout Factor

12. Allow a few minutes for cellular service to be obtained.
13. Restore the generator set to service and check operation by logging into the KOHLER Energy Management app to verify generator set is communicating.

3.3 Restore the Generator Set to Service

1. Check that the Emergency Stop button or Prime Mover Shutdown (if equipped) is activated.
2. Reconnect the generator set engine starting battery, negative (–) lead last.
3. Reconnect the AC power to the generator set by closing the upstream circuit breaker (typically located in the customer's distribution box or inside the transfer switch enclosure).
4. Reconnect the generator set to load by closing the line circuit breaker.
5. Reset the Emergency Stop or Prime Mover button (if equipped).
6. Clear the Emergency Stop fault on the controller.
7. Return the generator set to normal operation by pressing the generator set master control AUTO or RUN button, as required.

4 Installation Drawings

Refer to the drawings on the following pages for recommended cellular kit installation locations on generator set models. Adjust antenna placement as necessary to obtain the best possible reception.

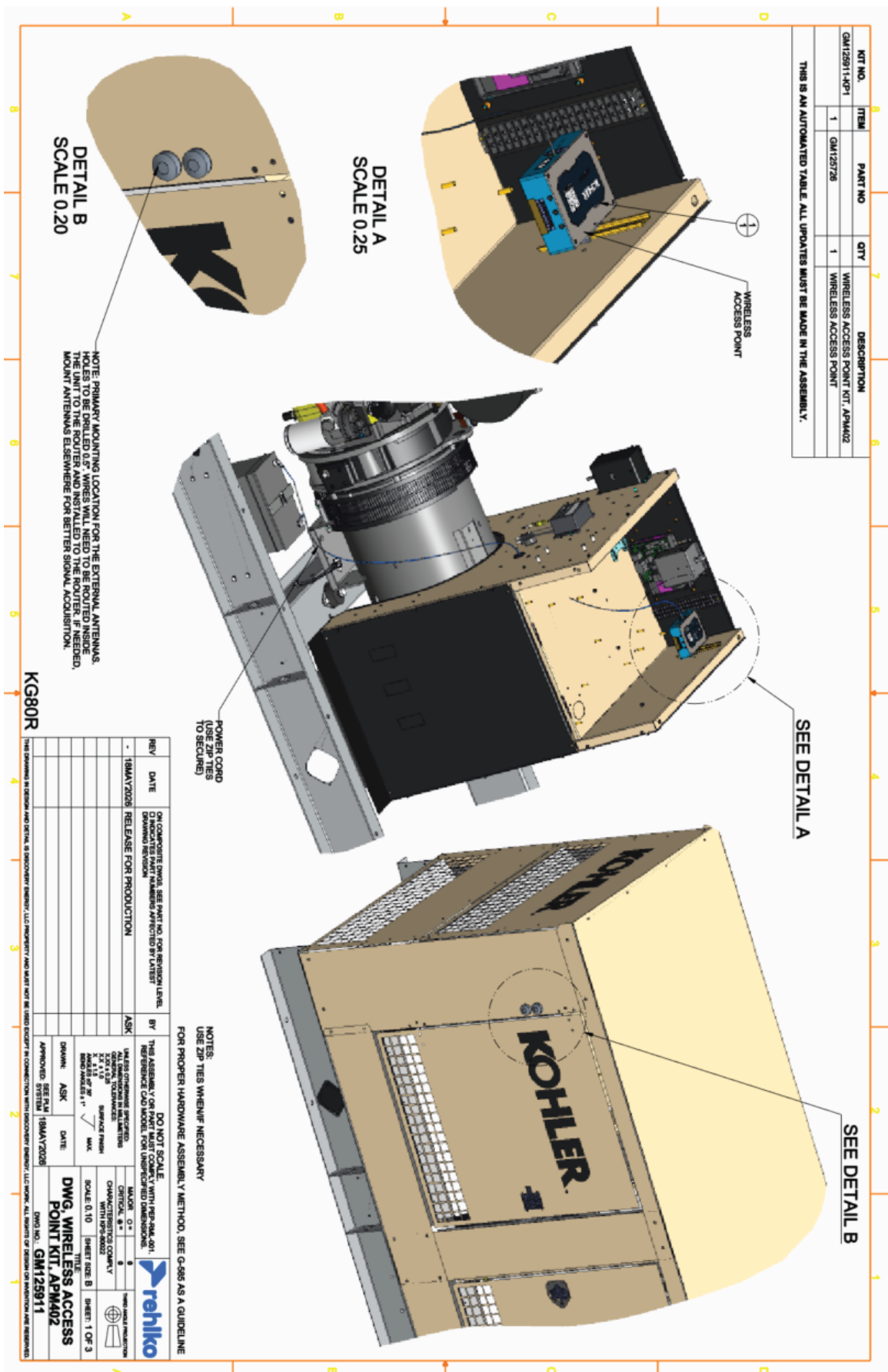


Figure 3: Installation on KG80R

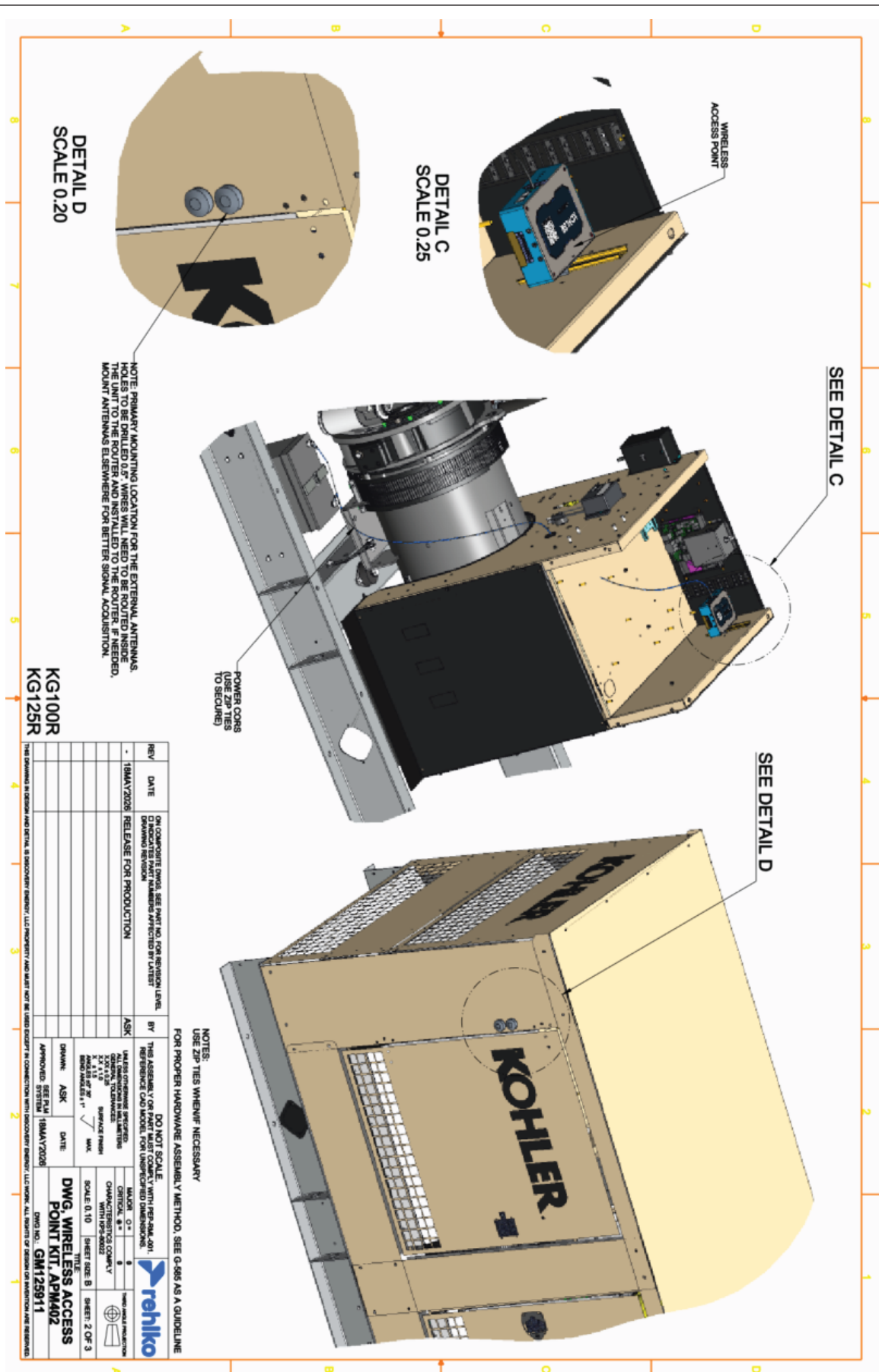


Figure 4: Installation on KG100-125R

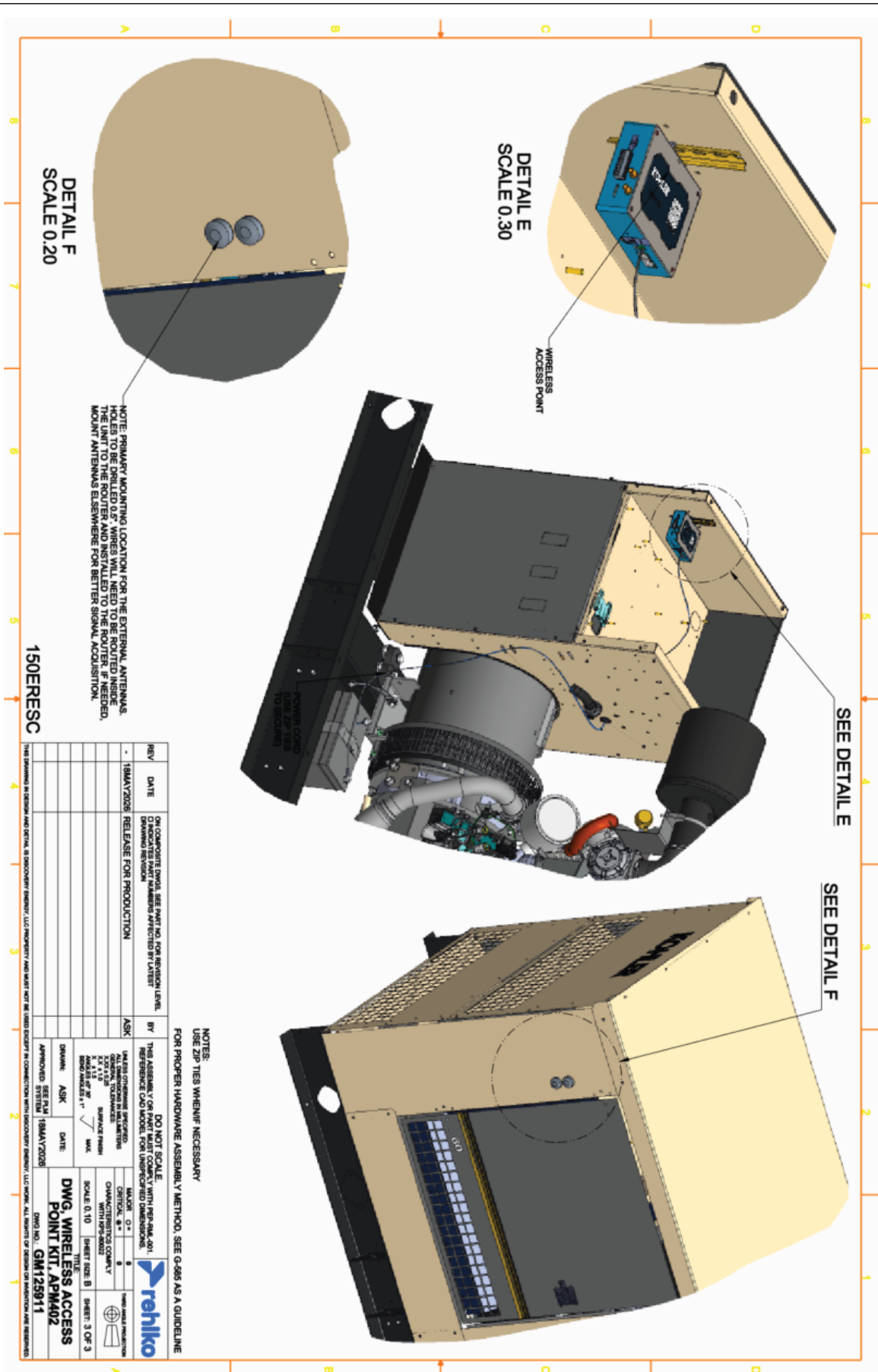


Figure 5: Installation on 150ERESC

5 Connection Diagrams

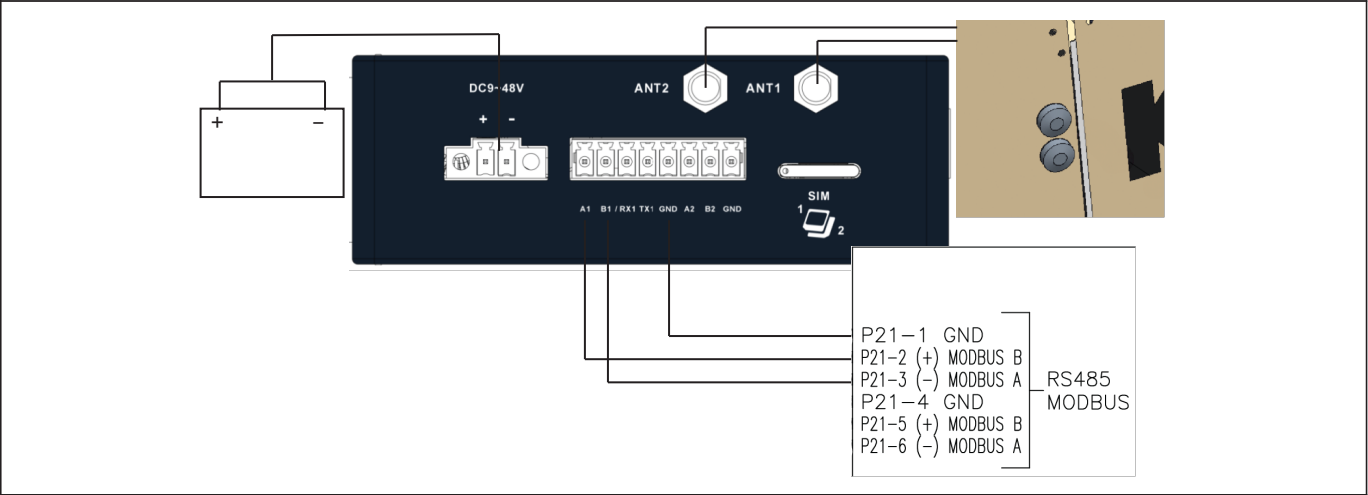


Figure 6: Cellular Kit Connection to Generator Set

Controller Pin	Cell Kit Pin
P21-1	Ground
P21-2	A1
P21-3	B1
If equipped with RSA	
RSA ground	Ground-Right
RSA +	A2
RSA -	B2

Table 1: Pin Locations for Wiring

6 Parts list

Kit: GM125911-KP1-QS		
Qty.	Description	Part Number
1	Wireless Access Point	GM125726-1
1	Kit, Din Mounting	GM125726-2
2	Antennas, External	GM125726-3
1	Cable, Power	GM125726-5
1	Connector, RS-232485	GM125726-7

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