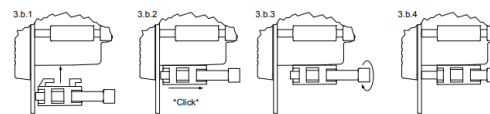
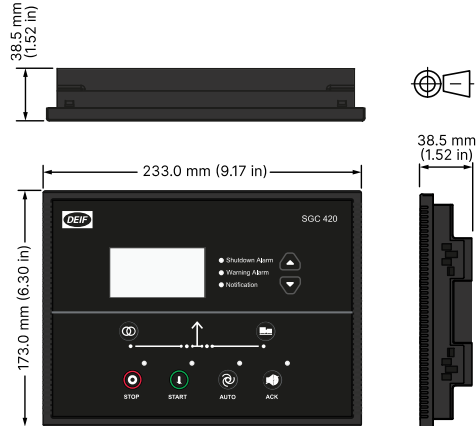


Dimensions

Length: 233.0 mm (9.17 in)
Height: 173.0 mm (6.81 in)
Depth: 38.5 mm (1.52 in)

Panel cut-out

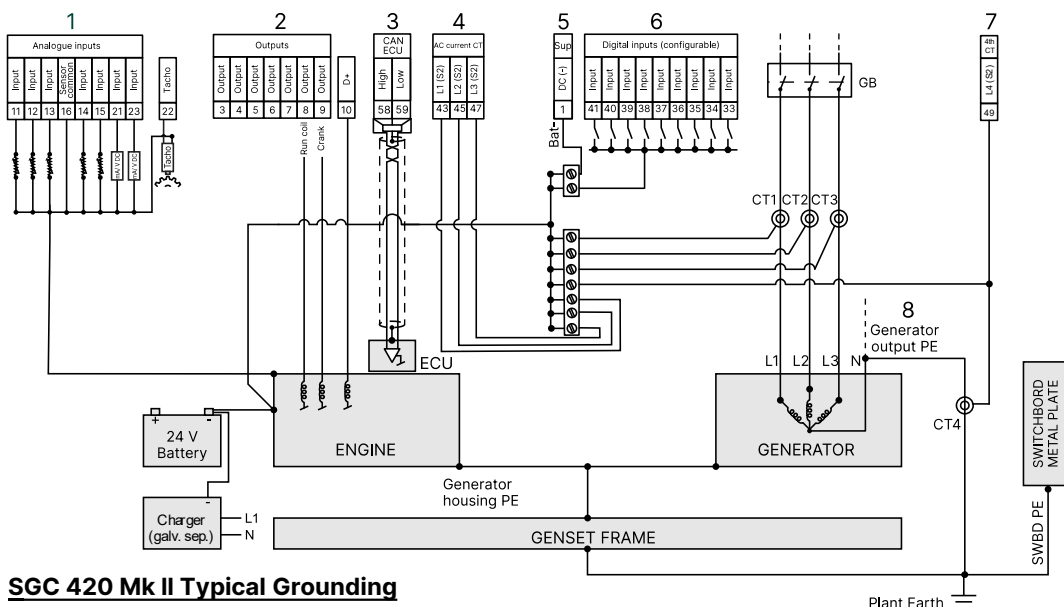
Length: 219.0 mm (8.62 in)
Height: 158.0 mm (6.22 in)
Tolerance: ± 0.3 mm (0.01 in)



! Tighten the screw clamps to 0.19 Nm. Do not tighten the clamps to more than 0.19 Nm.

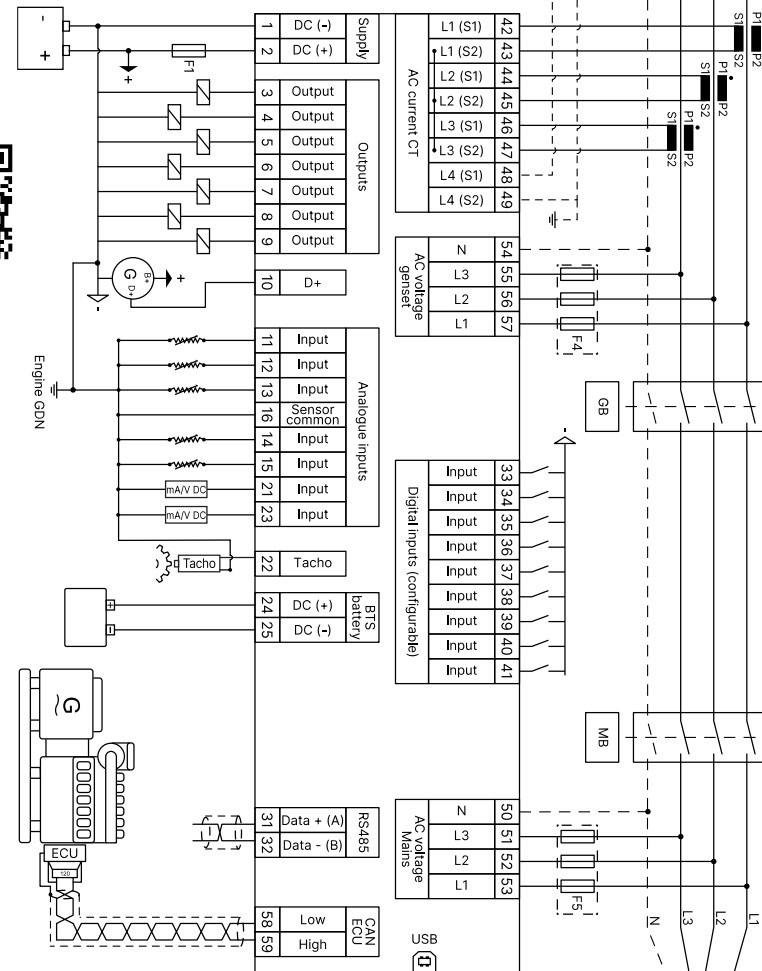


Manual



SGC 420 Mk II Typical Grounding

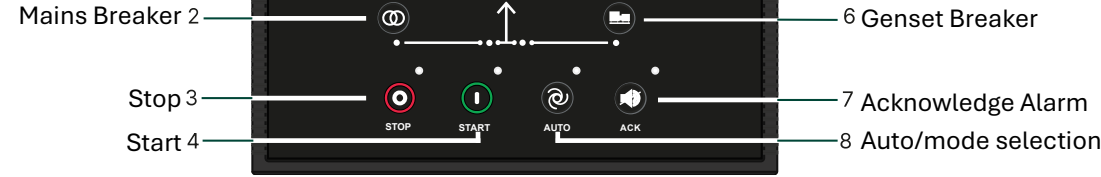
1. Terminal 16 (sensor common point) must be connected to a solidly grounded point on the engine, for example the engine frame. The potential difference to terminal 1 (BAT-) must be less than ± 5 V.
2. Do not connect the starter motor relay and the stop solenoid directly to the output terminals on the controller. You can configure each output as run coil and crank.
3. Connect the shield to the engine ECU as described by the engine manufacturer.
4. Current transformers.
5. Power supply (terminal 1) must be connected to BAT- (in this example, the engine).
6. Connect the digital inputs to ground to active the negative switching.
7. The 4th current is placed on the line from the generator output PE.
8. Connect PE of the generator directly to the plant earth. This prevents short circuits and high energy transients from the grid side to cause severe damage to the system.



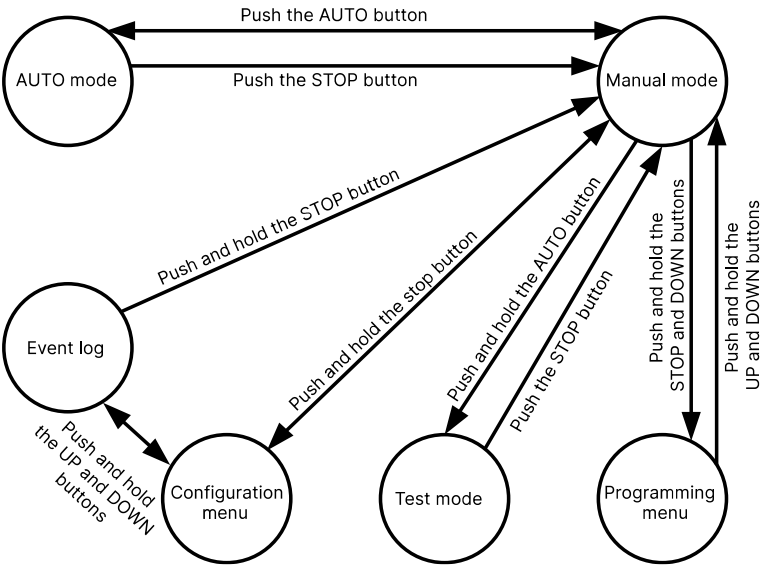
Note - The S2 terminals are internally short.

Communication - Communication ports for CAN (terminals 58 and 59) and RS 485 (terminals 31 and 32) have built-in 120 Ω termination resistors.

! Use Screwdriver, PH2 or 5mm Flat, torque 0.15 N·m (1.3 lb-in)





Mode and menu selection

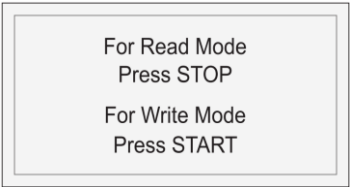





For SGC Mk II PC Tool / Laptop Access:

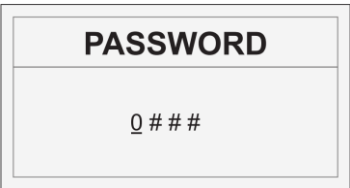
- Communication Cable – USB A to B (Printer Cable)
- Configuration / PC Tool – DEIF Smart Connect Mk II.
- Firmware Flash Tool – Smart Flash.


Configure the parameter settings on the display

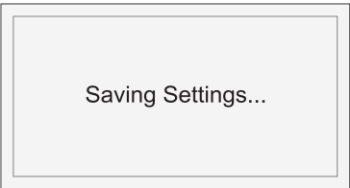
1. Push and hold the Stop/Config button  for a minimum of three seconds.
2. Push the Start  button to continue to the configuration menu.



3. Enter the password. The default password is 0123.
 - Use the Up  and Down  buttons to change the number.
 - Select a number with the Start  button.



4. You can now configure the parameters.
5. To leave the configuration menu, push and hold the Stop/Config  button.
6. The controller exits the menu once your settings have been saved.



The controller automatically exits the configuration menu when there is no user interaction after an adjustable time. Go to Timers > General > Auto Exit Config Mode to configure the timer.

