



DRC-003

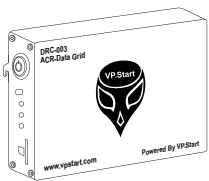
Installation Instruction



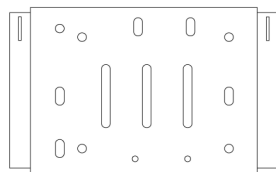
I. Introduction

The DRC-003 is a smart controller for Cooper Auto Reclosers. The DRC-003 effectively enables electric utility operators to take advantage of enhanced remote control, monitoring and distribution grid management for medium voltage operations (22kV & 35kV). Operators benefit from greater insights such as line fault activity, current loads information, power quality data and other vital information that help minimize outages, outage duration times and increase power reliability. In addition, the enhanced capabilities offered by the DRC-003 "Smart-Controller" solution for Cooper Auto Reclosers have not only yielded impressive results in increasing energy reliability and minimizing power losses on the network, It has also enabled increased safety for maintenance teams due to the data-insights the DRC-003 provides for Cooper Auto Reclosers. As a result, operators benefit from decreased OPEX & CAPEX while ensuring a higher level of energy supply reliability for their downstream consumers.

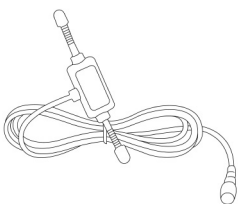
II. Accessory



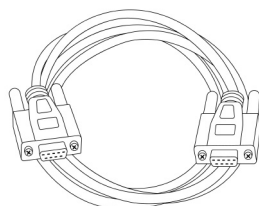
DRC-003 Controller
(1pc)



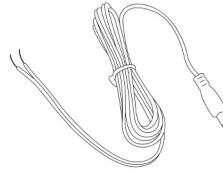
Controller Support
(1pc)



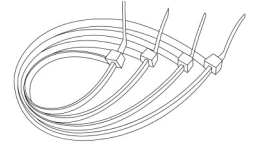
GSM Antenna
(1pc)



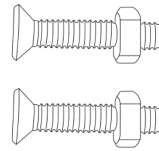
Serial Cable
(Male to Female)
(1pc)



DC Power Cable
(1pc)



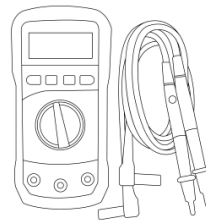
Cable Tie (6pcs)



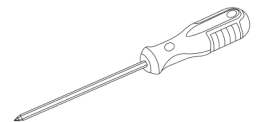
Screw + Nut
(M4*15cm) (2pcs)

III. Installation Procedure

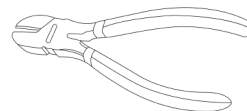
Tools Support



Multimeter



Screwdriver PH2



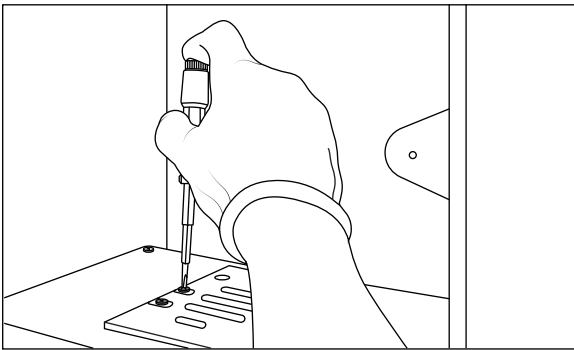
Diagonal Cutting
Pliers

📍 Controller Installation Process

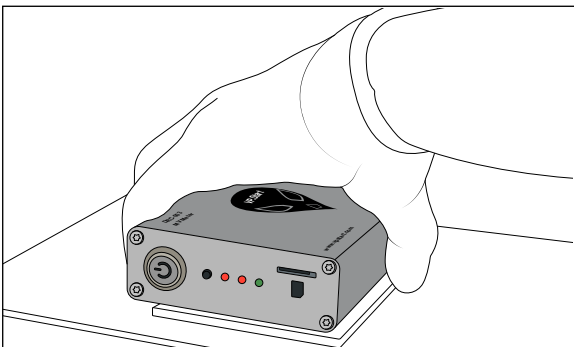
⚠️ NOTE

- 📍 For Cooper Auto Recloser firmware version lower than 2.34 needs to update to firmware 2.34.
- 📍 Firmware version lower than 3.03.08 needs to update to firmware 3.03.08
- 📍 Firmware version higher than 3.22.08 no need to update.

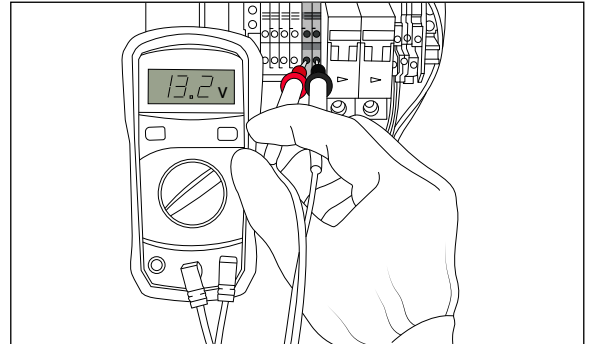
- 01** Mount the controller's mounting support panel onto Cooper support panel.



- 02** Mount the DRC-003 controller onto the controller's mounting support panel.



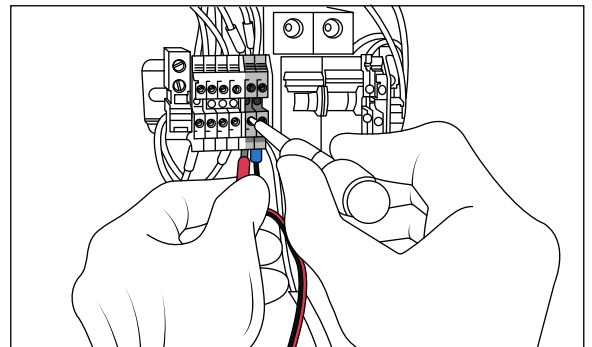
- 03** Check the voltage level through the connector (13.5V+) and connector (13.5V-) on DC auxiliary power supply connector with the multimeter (Handheld).



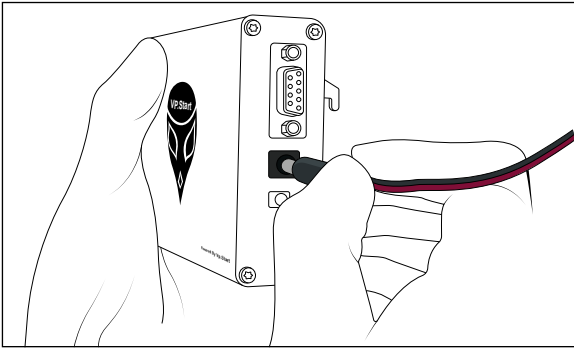
⚠️ NOTE

- 📍 A suitable voltage range of 12VDC to 24VDC is recommended.

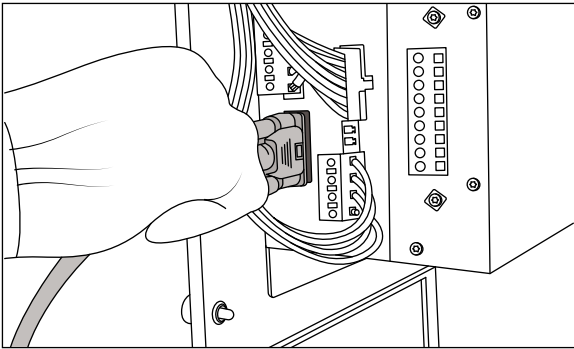
- 04** Connect DC Power Cable by the Red Cable connect to connector (13.5V+) and Black Cable connect to connector (13.5V-).



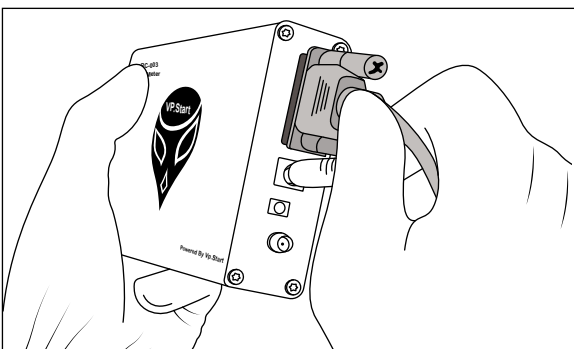
- 05 Then Connect the DC power jack to the DC 24V port on the DRC-003 controller as shown.



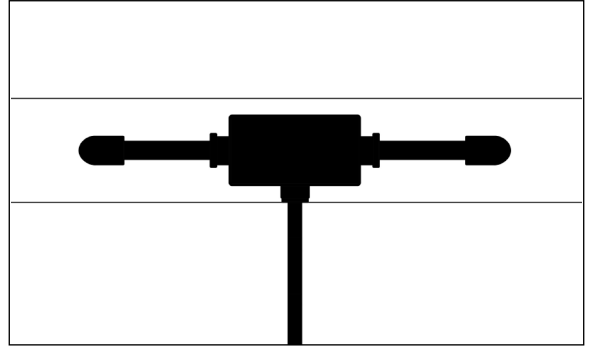
- 06 Connect Serial Cable (Female) to RS232 port on Cooper Controller.



- 07 Connect Serial Cable (Male) to RS232 on DRC-003 Controller.



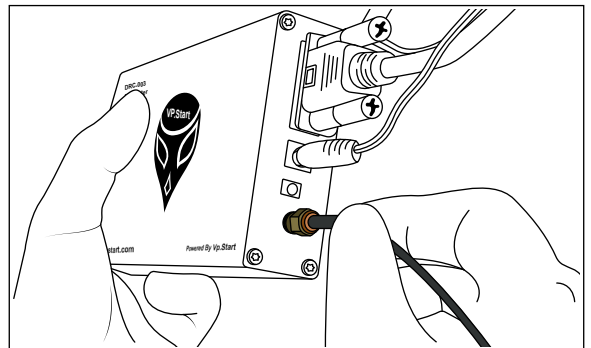
- 08 Install GSM Antenna to the appropriate area on site.



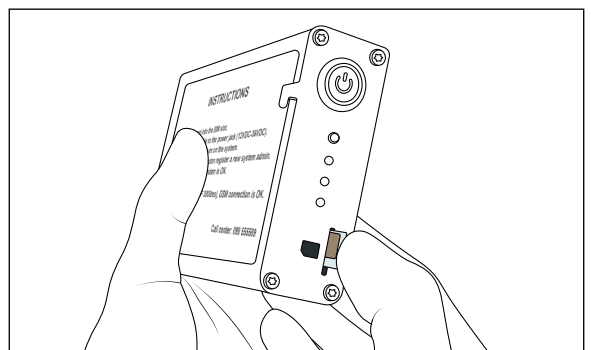
NOTE

- Keep an appropriate and safe spot to ensure adequate signal strength.

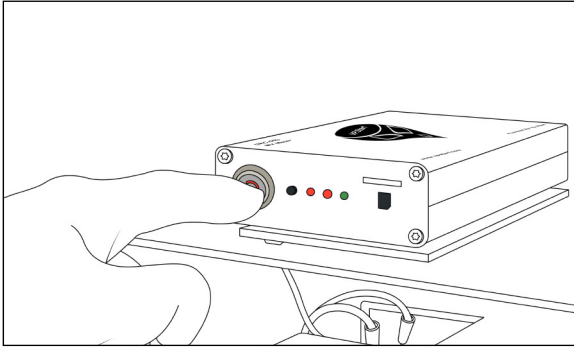
- 09 Then connect GSM antenna cable to the ANT port on the DRC-003 controller.



- 10 Insert micro SIM into SIM Slot on DRC-003.



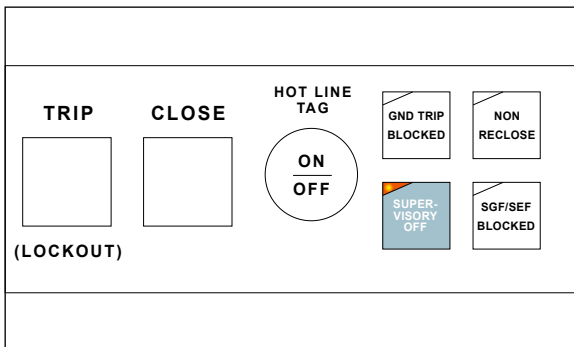
- 11 To start up the DRC-003, push the power button.



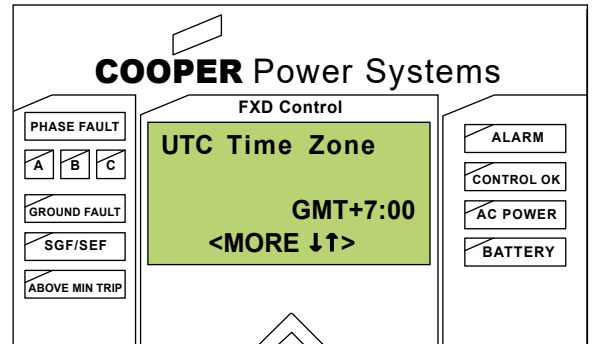
NOTE

- The DRC-003 is running normally if the running LED is blinking every 1s.
- The GSM connection is Good if Net LED flashing every 3s.
- The GSM Module is Okay if GSM LED is ON.

- 12 Turn on "SUPER-VISORY OFF" button.



- 13 Set Time Zone to GMT+7:00
 - > CLOCK
 - > UTC Time Zone
 - > GMT +7:00



- 14 Disable Negative Sequence
 - > SETTINGS
 - > Modify
 - > OverCurrent
 - > Neg Seq Param
 - > Neg Seq Enable
 - > Disable

