



DRC-018 USER GUIDE




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CONTENTS

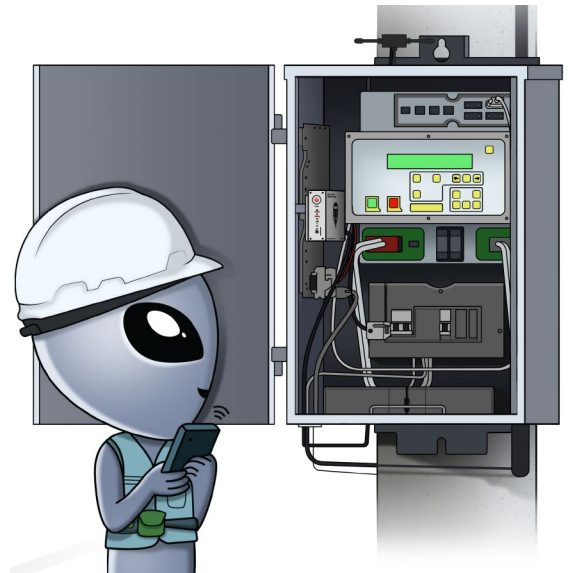
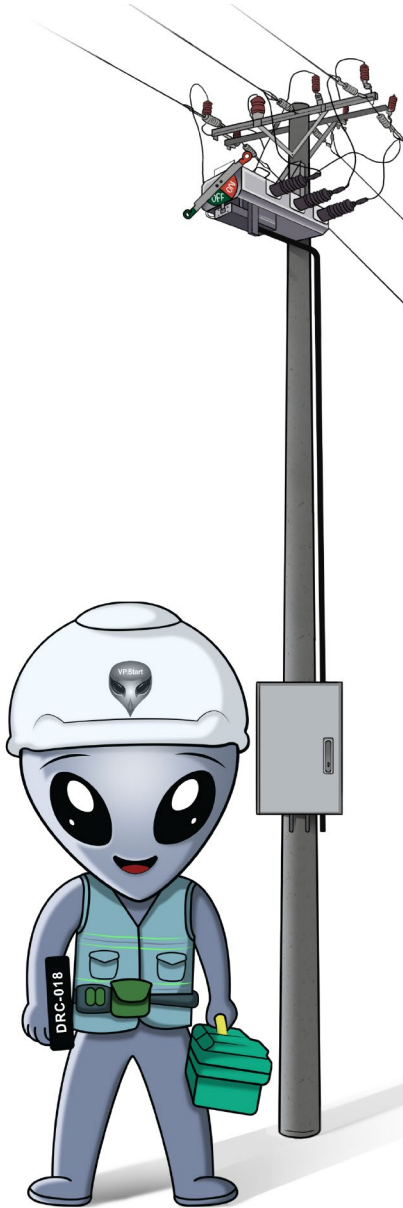
CONTENTS

INTRODUCTION	1
PRODUCT OVERVIEW	2
HARDWARE DIMENSIONS	3
SPECIFICATIONS & FEATURES	4
INSTALLATION INSTRUCTIONS	7
APP USER GUIDE	14
TROUBLESHOOTING	53
CONTACT US	56



INTRODUCTION

The DRC-018 is a smart controller that was developed for the Schneider Automatic Sectionalizer. It is most effectively used for remote control, monitoring, alarm information, and various measurement readings of the 22kV/35kV medium voltage distribution networks. Operators can increase their ability to maintain a stable power supply and be able to monitor their distribution network through the Smartphone App or RPM Grid application that works with the DRC-018 by using the secure GSM/GPRS communication network. The DRC-018 provides capabilities to reduce long-term power outages and provide distribution network data to operators for further network modification and development plans that will respond to growing business revenue and beyond by decreasing OPEX and CAPEX. The availability of the DRC-018 remote control system also increases safety and allows for faster operation.



PRODUCT OVERVIEW

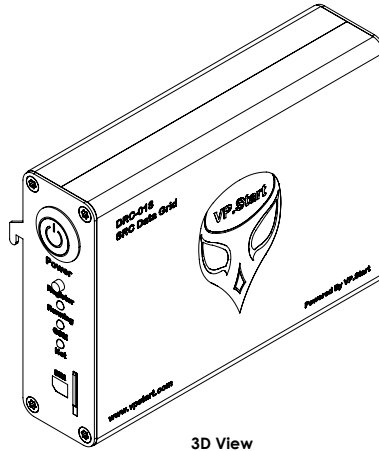


DRC-018 BOX PACKAGING

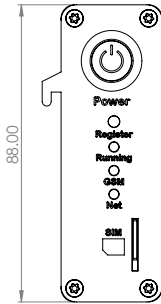
DRC-018 DEVICE



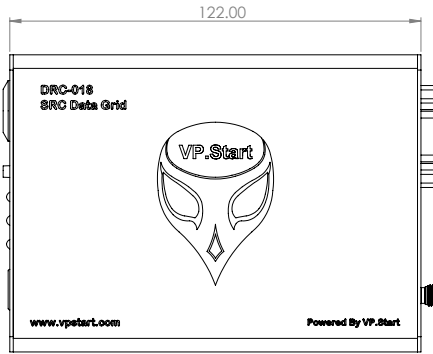
HARDWARE DIMENSIONS



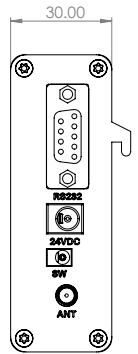
3D View



Side View



Front View



Side View



SPECIFICATIONS & FEATURES

Description

Specifications

Remote Control Unit

Remote Control for Schneider Sectionalizer (RL Series)

Remote Controller via Smartphone for Schneider Sectionalizer (RL Series) & can be configured to RPM Grid Software.

Voltage Supply Range

12 - 36 Vdc

Operation Temperature

0 to 65 °C

Ambient Temperature Range

-10 to +70

Operating Humidity

30% to 95%

Communication Interface

- Serial (RS232).
- GSM Communication.
- GPRS Communication.

Status LEDs

- System running: blinking 1s.
- System power: red LED is ON.
- System network: green LED flashing.

App & Software Tools Interface

- PC application: RPM Grid Software Solution.
- Mobile application: DRC-018 Android App.

Remote Control Functions & Features

Control Functions:

Control Switchgear (Trip/Close)

Yes

Monitoring Features:

Measurement: Current, Voltage, Real Power, Reactive Power, Apparent Power, Power Factor.

Yes

Switchgear Position (Trip/Close)

Yes



SPECIFICATIONS & FEATURES

System Frequency: 50(Hz)/60(Hz)	Yes
Control Mode: Local/Remote	Yes
ADVC Time & Date	Yes
Battery Voltage	Yes
GSM Signal Strength (1-30)	Yes
Controller Location on Map	Yes
Setting Features:	
Tracking Abilities	Yes
AC Source Supply OFF Alarm (Enable/Disable)	Yes
Switchgear OFF Alarm (Enable/Disable)	Yes
Alarm Notifications:	
AC Source Supply OFF Alarm	Yes
Switchgear OFF Alarm	Yes
CB 220V Switch OFF Alarm	Yes
System Low Battery Alarm	Yes
Software Management:	
Add/Remove User	Yes



Add/Remove Controller (DRC-018)	Yes
View all Controller (DRC-018)	Yes
View all Users	Yes
Check/Top Up Balance	Yes

Reporting & Event Logs:

User Switchgear Control Event Logs	Yes
------------------------------------	-----

Call Control Features

Key Tone Control Features:

Read Switchgear Position (Trip/Close)	Yes
Call Control Switchgear (Trip/Close)	Yes
Feeder Measurement (Current, Voltage, Power)	Yes

Language & Voice Support:

Language (Khmer)	Yes
Call Control Instruction	Yes

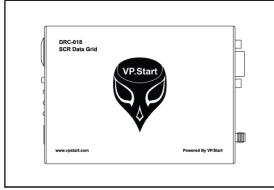
Physical Specifications

Position Mounting	The Remote Control (DRC-018) is connected & mounted inside the Schneider Sectionalizer (RL Series) Cabinet.
Dimention	H=88mm x L=120mm x W28mm
Weight	200mg

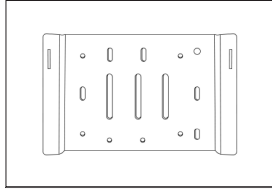


INSTALLATION INSTRUCTIONS

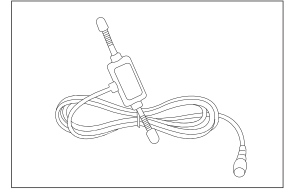
ACCESSORIES



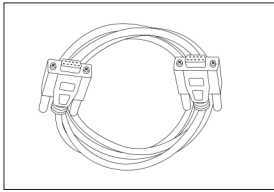
DRC-018 Controller (1pc)



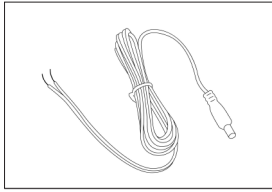
Controller Support (1pc)



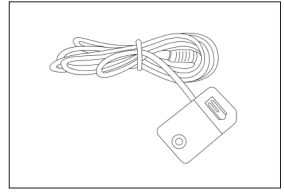
GSM Antenna (1pc)



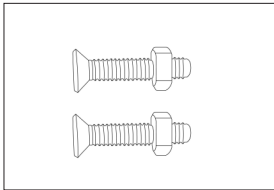
Serial Cable (Male to Female)
(1pc)



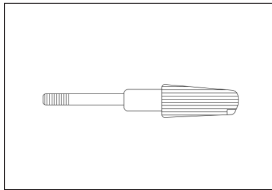
DC Power Cable (1pc)



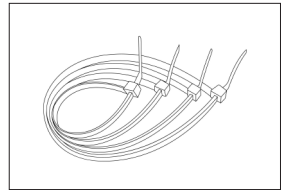
Limit Switch (220V CB Trip
Sensor) (4pcs)



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



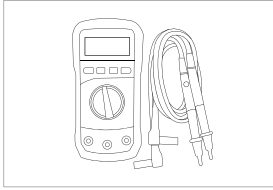
CB Screw Support (1pc)



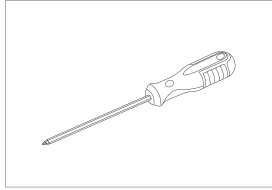
Cable Tie (6pcs)



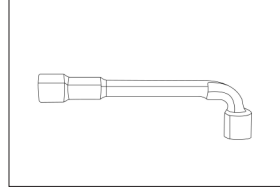
SUPPORTING TOOLS



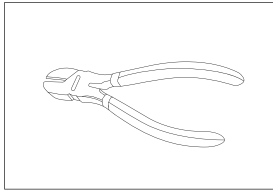
Multimeter



Screwdriver PH2



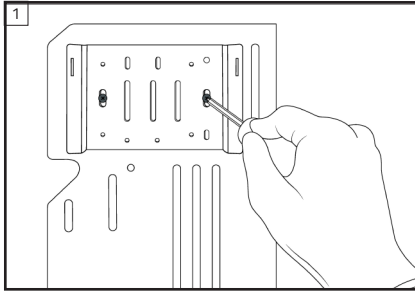
L Type Wrench 8mm



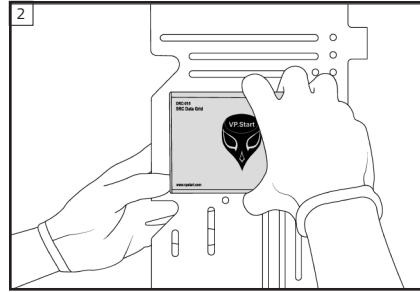
Diagonal Cutting Pliers



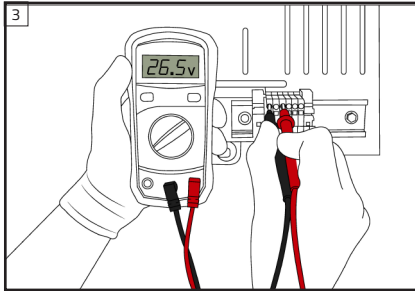
CONTROLLER INSTALLATION PROCESS



Mount the controller's mounting support panel onto ADVC's support panel.



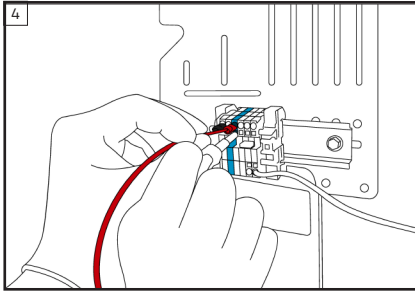
Mount the DRC-018 controller onto the controller's mounting support panel.



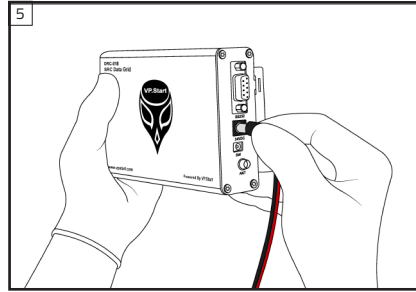
Check the voltage level through the (+) battery pin and ground (GND) at the ADVC DC supply connector with the multimeter shown (Handheld).

NOTE

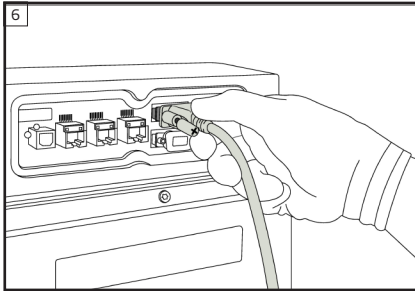
⚠ The suitable voltage shall be 12VDC to 29VDC.



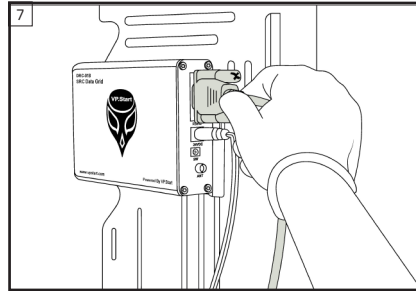
Connect DC Power Cable by the Red Cable to Battery (+) and Black Cable to Ground (GND).



Then Connect the DC power jack to the DC 24V port on the DRC-018 controller as shown.



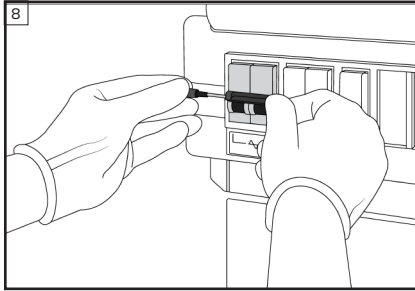
Connect Serial Cable (Female) to RS232 Port A on ADVC Controller.



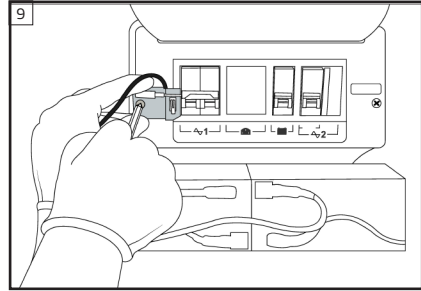
Connect Serial Cable (Male) to RS232 on DRC-018 Controller.



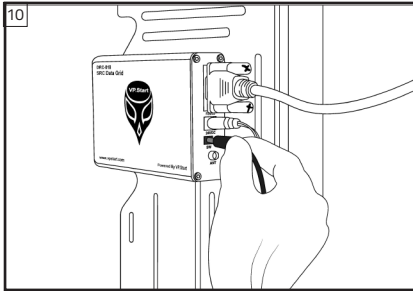
INSTALLATION INSTRUCTIONS



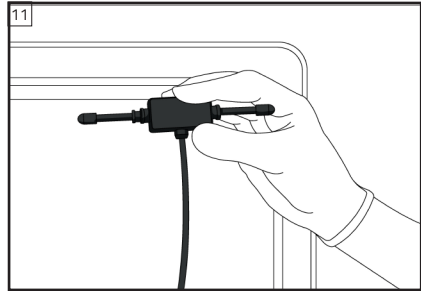
Connect "CB Screw Support" with 220VAC Circuit Breaker (CB).



Mount Limit Switch (220VAC CB trip sensor) close by left side of CB.



Then connect the limit switch cable to the SW port on the DRC-018 controller.

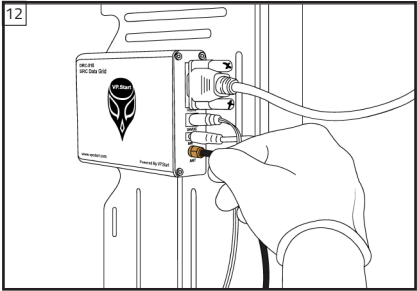


Install GSM Antenna to an appropriate area on site.

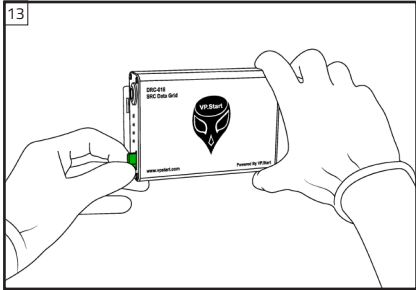


NOTE

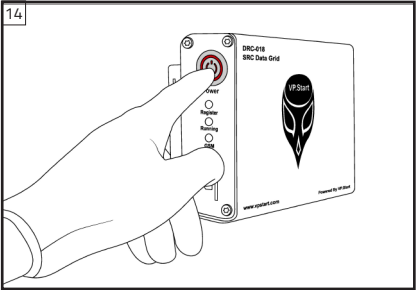
Keep an appropriate and safe spot to ensure adequate signal strength.



Then connect GSM antenna cable to the ANT port on the DRC-018 controller.



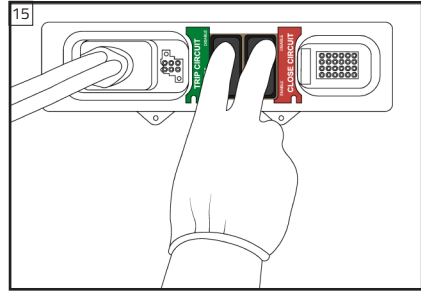
Insert micro SIM into SIM Slot on DRC-018.



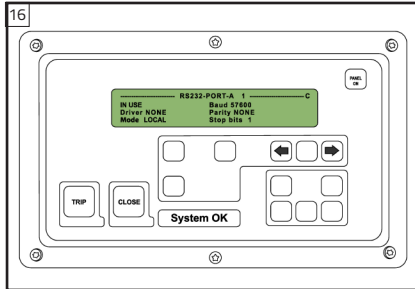
To start up the DRC-018, push the power button.

NOTE

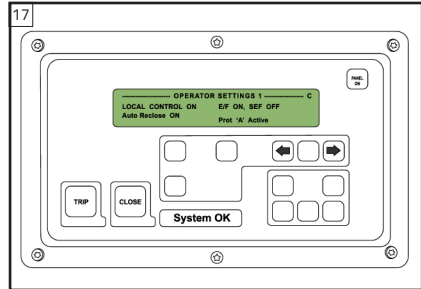
- 📍 The DRC-018 is running normally if the running LED is blinking every 1s.
- 📍 The GSM connection is Good if Net LED flashing every 3s.
- 📍 The GSM Module is Okay if GSM LED is ON.



Enable TRIP CIRCUIT Switch and CLOSE CIRCUIT Switch.



- RS232-PORT-A Configure: LOCAL mode
- > COMMUNICATION SETUP
 - > Configure Ports
 - > RS232-PORT-A
 - > Mode LOCAL



- OPERATOR SETTING: LOCAL CONTROL ON
- > COMMUNICATION SETUP
 - > OPERATOR SETTINGS 1
 - > LOCAL CONTROL ON



APP USER GUIDE

Mobile Phone Interface Usage

01

How to Install DRC-018 App on Smartphone

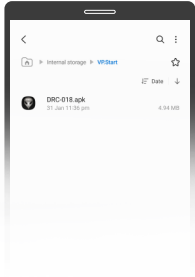


Fig. 01

Click on "DRC-018 .apk" to install.

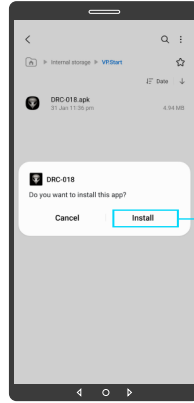


Fig. 02

Click on "Install".

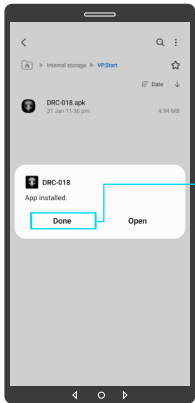


Fig. 03

Click on "Done" to finish.



Fig. 04

DRC-018 App installed.



02 Create User Account



Fig. 05

Click on "DRC-018 App" to open App.

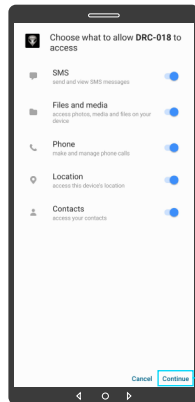


Fig. 06

If the system pop up allow DRC-018 to access.

Then click on "Continue".



Fig. 07

Create User Account login interface.

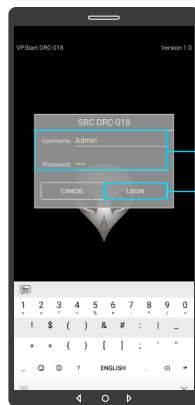


Fig. 08

Create: Username and Password.

Then click on "LOGIN".



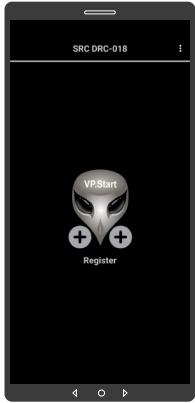


Fig. 09

NOTE

When installing the DRC-018 smartphone application for the first time, users will have to register the first DRC-018 controller before they can access other functions.

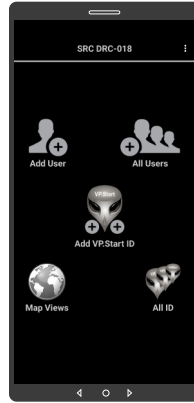


Fig. 10

NOTE

After the first controller is registered, users can access other functionalities as showed in Fig. 10.

03 Login to App



Fig. 11

Click on "DRC-018 App" to open App.

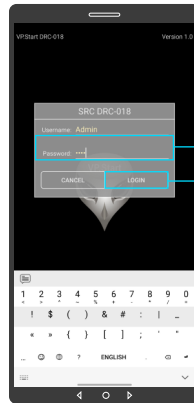


Fig. 12

Input the Password.

Click on "LOGIN".



Fig. 13

DRC-018 App functions.

04 Service

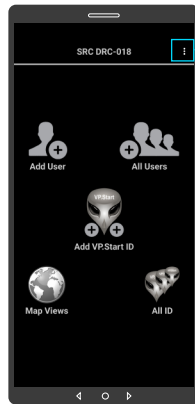


Fig. 14

Click here to view "Help, Service and Exit".

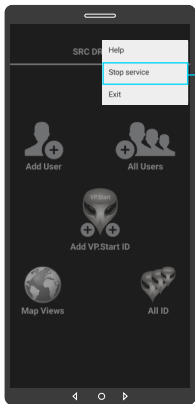


Fig. 15

After the device(s) has been registered. Alarm service is enabled by default. To stop it, click on Stop service to stop receiving automated alarms from the controller through the smartphone app.



Fig. 16

Alarm service is not running when your smartphone has not enabled DRC-018 alarm service as shown in Fig. 16.





Fig. 17

To start alarm service. Click to view "Help, Service and Exit". Click on "Start service" to start receiving automated alarms from the controller through the smartphone app.

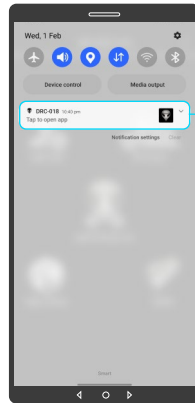


Fig. 18

Alarm service is running when your smartphone has enabled DRC-018 alarm service as shown in Fig.18.

05 Adding Users

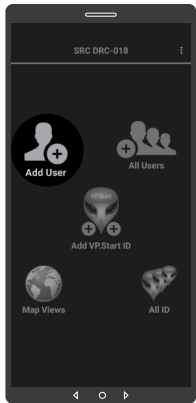


Fig. 19

Click to open "Add User".

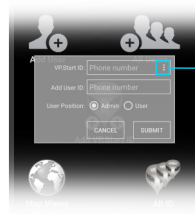


Fig. 20

Click here to view all VP.Start ID (Phone Number).

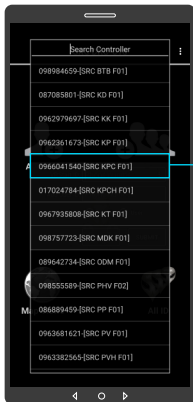


Fig. 21

Click to choose a VP.Start ID.

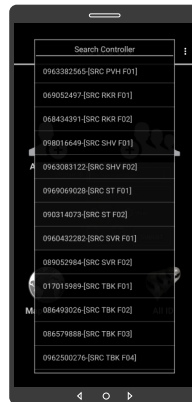


Fig. 22

NOTE
 Scroll up or down to view more VP.Start ID.



Fig. 23

VP.Start ID chosen.



Fig. 24

Write user phone number in "Add User ID".
 Choose user position as Admin or User.
 Click on "SUBMIT" and confirm by "OK" button.



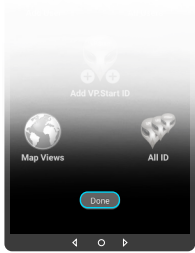


Fig. 25

NOTE

The application will display "Done" as a pop up notification to confirm the registration of the new user into the system for a specific controller.

06 All Users

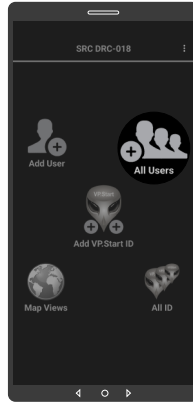


Fig. 26

Click to open "All Users".



Fig. 27

Click here to view all VP.Start ID (Phone Number).

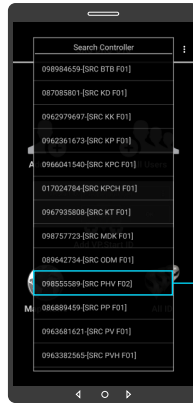


Fig. 28

Choose a VP.Start ID.



Fig. 29

Confirm by "OK" button.



Fig. 30

Click on Refresh button. And confirm by "OK" button.

07

Delete User



Fig. 31

All Users view.

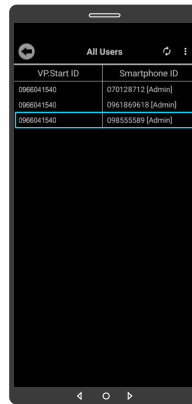


Fig. 32

To delete user from your DRC-018, hold on a user number.



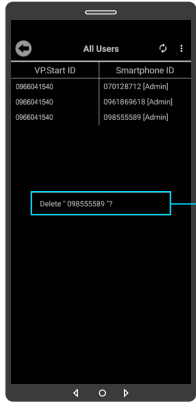


Fig. 33

Click on Delete "User phone number" and confirm by "OK" button.

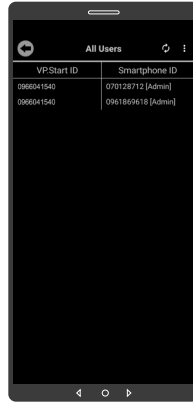


Fig. 34

User deleted.

Add VP.Start ID

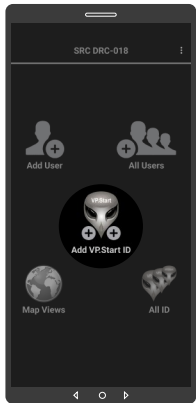


Fig. 35

Click to open "Add VP.Start ID".

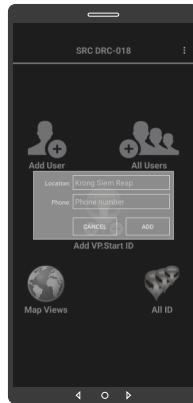


Fig. 36

Add VP.Start ID interface.

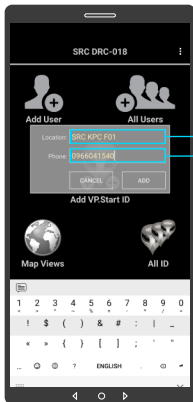


Fig. 37

Click to write location name (DRC-018 name).

Click to write VP.Start ID (DRC-018 phone number).

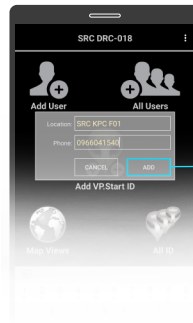


Fig. 38

Click on "ADD" button and confirm by "OK" button.

09 Map Views

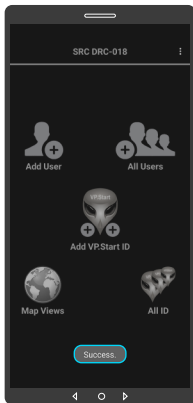


Fig. 39

NOTE

The application will display "Success" as a pop up notification to confirm the registration of the DRC-018 controller into the system.

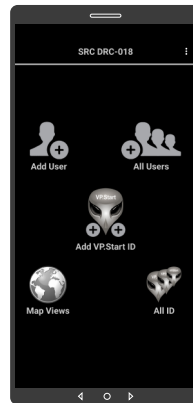


Fig. 40

Scroll down notification bar.

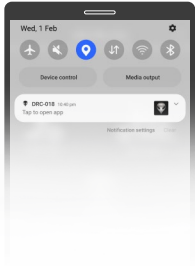


Fig. 41

Turn on location.

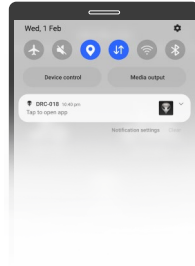


Fig. 42

Turn on Internet.

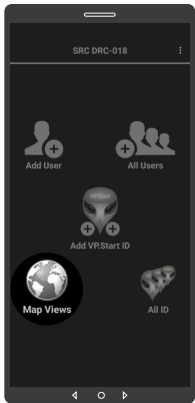


Fig. 43

Click to open "Map Views".

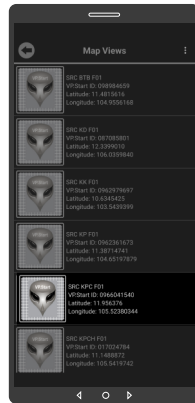


Fig. 44

Select a VP.Start ID.



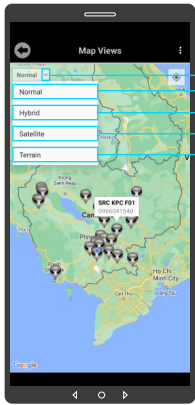


Fig. 45

- Click here to chose map views.
- View Normal map.
- View Hybrid map.
- View Satellite map.
- View Terrain map.

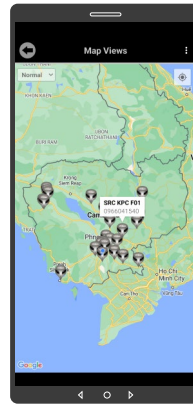


Fig. 46

Normal view

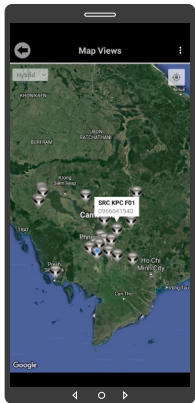


Fig. 47

Hybrid view



Fig. 48

Satellite view

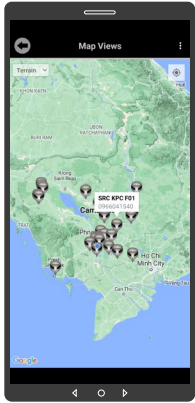


Fig. 49

Terrain view

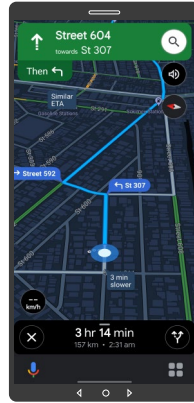


Fig. 50

Hold on VP.Start icon to show Drive Mode to VP.Start controller on Google Map.

10 Map Views (Change Map Coordinates)

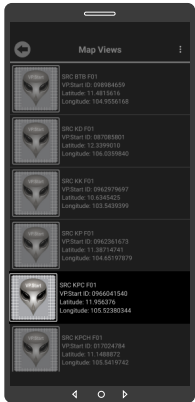


Fig. 51

To change map coordinate, hold on VP.Start ID in "Map Views".

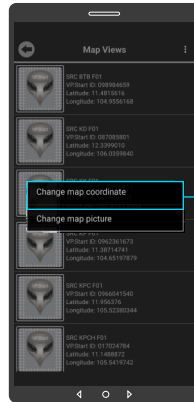
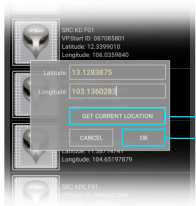


Fig. 52

Click on "Change map coordinates".



Click on "GET CURRENT LOCATION".

Click on "OK" button.

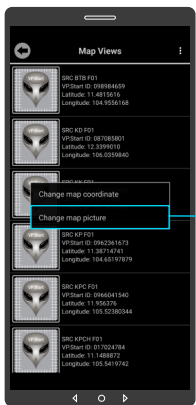
Fig. 53



DRC-018 location changed.

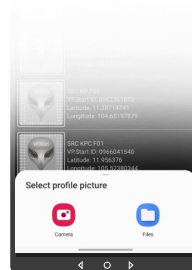
Fig. 54

11 Map Views (Change Map Picture)



To change map picture, hold on VP.Start ID in "Map Views" as Fig. 51. And click on "Change map picture".

Fig. 55



Take photo from "Camera" or choose photo from "File" and select photo. And confirm by "OK" button.

Fig. 56





Fig. 57

DRC-018 map picture changed.

12 Map Views (Delete Map Picture)



Fig. 58

To delete map picture, hold on map picture.

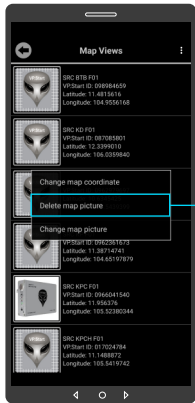


Fig. 59

Click on "Delete map picture" and confirm by "OK" button.

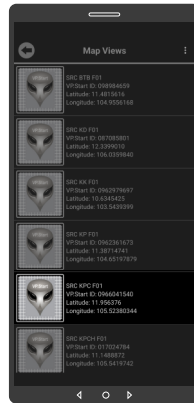


Fig. 60

DRC-018 map picture deleted.



13 All ID

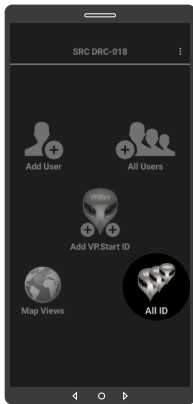


Fig. 61

Click on "All ID".



Fig. 62

All VP.Start ID view.

14 Control Interface



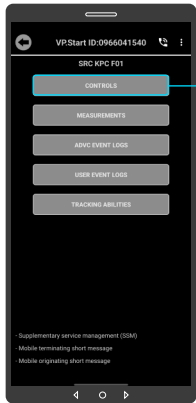
Fig. 63

NOTE
 Scroll up or down to view more VP.Start ID.



Fig. 64

Select a VP.Start ID.



Click on "CONTROLS".

Fig. 65



Click on "OK" button.

Fig. 66



Fig. 67

NOTE
 The "Signal Strength" will pop up as a notification message below indicating signal strength between 1 - 31 at the controller's site location. Signal strength of 15 and above is recommended.



To control "Trip Switchgear", click on "Trip" button.

Fig. 68





Fig. 69

Click on "YES" button to trip switchgear.



Fig. 70

Control "Trip Switchgear" success.



Fig. 71

To control "Close Switchgear", click on "Close" button.



Fig. 72

Click on "YES" button to close switchgear.



Fig. 73

Control "Close Switchgear" success.

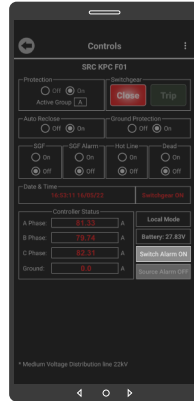


Fig. 74

To turn switch alarm off, click on "Switch Alarm ON" button. And confirm by "OK" button.

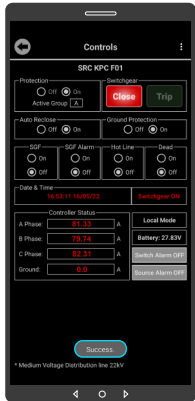


Fig. 75

NOTE
 "Success" will pop up as a notification message below indicating that you have turned off the automated "Switch Alarm" notifications successfully.

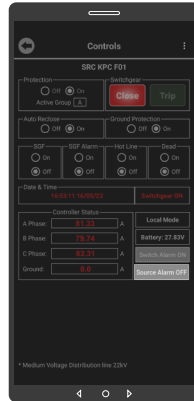


Fig. 76

To turn source alarm on, click on "Source Alarm OFF" button. And confirm by "OK" button.



Fig. 77

NOTE

"Success" will pop up as a notification message below indicating that you have turned on the automated "Switch Alarm" notifications successfully.

15 Measurements Interface



Click on "MEASUREMENTS".

Fig. 78

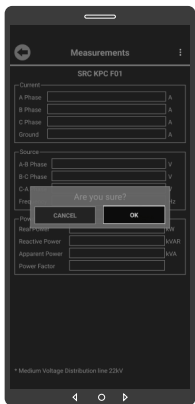


Fig. 79

Click on "OK" button.

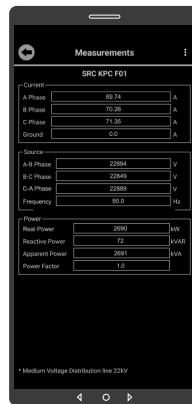


Fig. 80

Measurements Interface.



16 ADVC Event Logs Interface

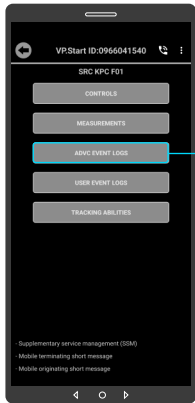


Fig. 81

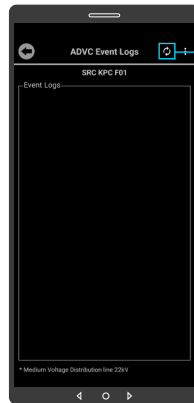


Fig. 82



Fig. 83

Click on "OK" button.

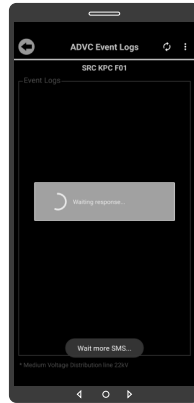


Fig. 84

NOTE

⚠️ "Wait more SMS" will pop up as a notification message below indicating that more SMS messages are loading from the controller to the ADVC event logs displayed in the app as shown in Fig. 84.



Fig. 85

ADVC Event Logs Interface.

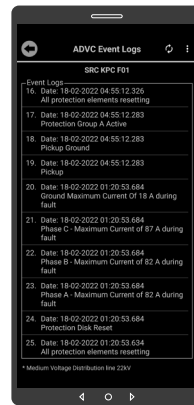


Fig. 86

NOTE
 Scroll up or down to view more ADVC Event Logs.



Fig. 87

Click on "Refresh" button to get more ADVC Event Logs.

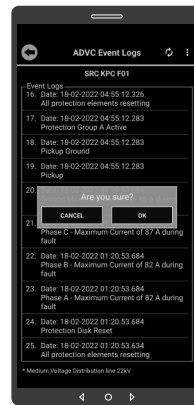


Fig. 88

Click on "OK" button.





Fig. 89

More ADVC Event Logs shown.

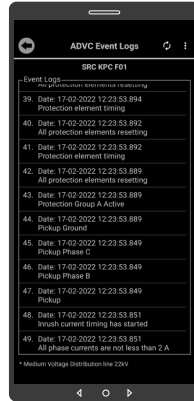


Fig. 90

NOTE
 Scroll up or down to view more ADVC Event Logs.

17 Delete ADVC Event Logs Interface

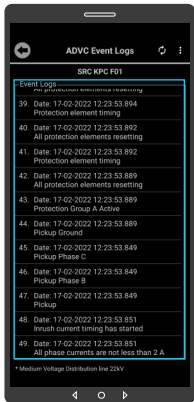


Fig. 91

To delete ADVC Event Logs, hold on ADVC Event Logs.

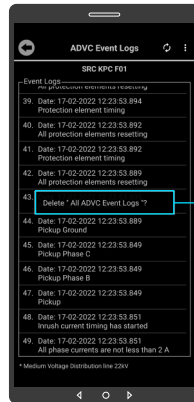


Fig. 92

Click on "Delete All ADVC Event Logs".



18 User Event Logs Interface



Fig. 93

ADVC Event Logs deleted from app interface.

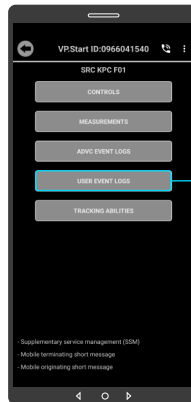


Fig. 94

Click on "USER EVENT LOGS".



Fig. 95

Click on "Refresh" button to get User Event Logs.



Fig. 96

Click on "OK" button.



Fig. 97

User Event Logs showed.

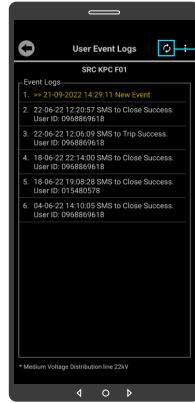


Fig. 98

Click on "Refresh" button to get more User Event Logs.

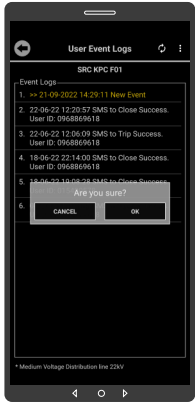


Fig. 99

Click on "OK" button.

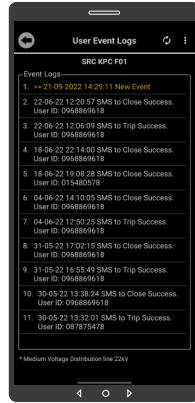


Fig. 100

More User Event Logs showed.



19 Delete User Event Logs Interface

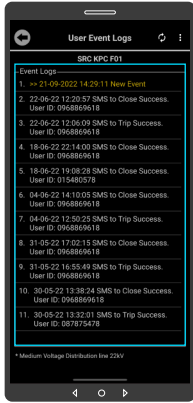


Fig. 101

To delete User Event Logs, hold on User Event Log.

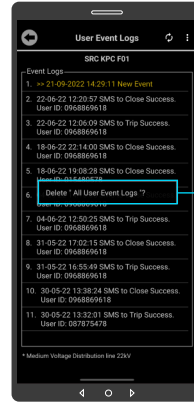


Fig. 102

Click on "Delete All User Event Logs" and click on "OK" button to confirm.

20 Tracking Abilities Interface



Fig. 103

User Event Logs deleted from app interface.

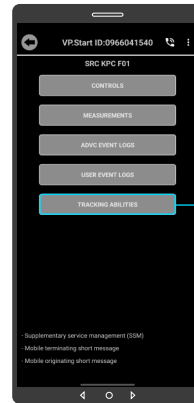


Fig. 104

Click on "TRACKING ABILITIES".

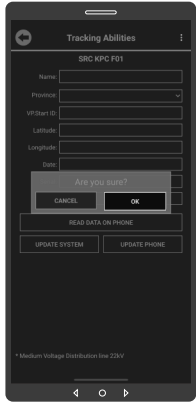


Fig. 105

Confirm by "OK" button.

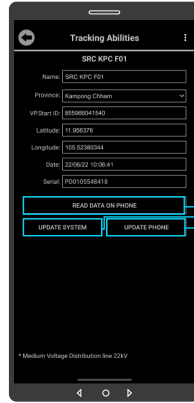


Fig. 106

Click to read data on phone.

Click to update data from system to phone.

Click to update data from phone to system.



Remote "Call Control"

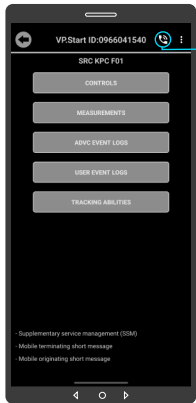


Fig. 107

Click on "Call" button to make call control.

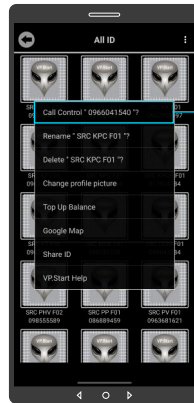


Fig. 108

Or hold on VP.Start ID icon and click on "Call Control".



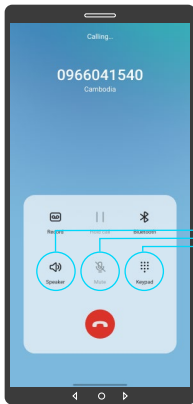


Fig. 109

- Click to turn on Speaker.
- Click to Mute.
- Click to show Keypad.

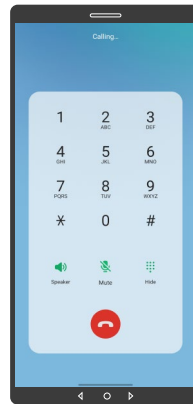


Fig. 110

Remote call control interface.

CALL CONTROL

- Click ① for Khmer.
- Click ② for English.
- Click ③ for an introduction to its features and an explanation of how to use the DRC-018.
- Click ⑤ for "Current":
- Click ⑥ for "Voltage":
- Click ⑦ to know about the "Switchgear Position" function.
- Click ⑧ for "Re-start Controller":
- Click ⑨ for "Power Consumption":
- Click ⑩ for Opening "Control Mode":
- Click * for "Trip":
- Click # for "Close":

22 Renaming VP.Start IDs (DRC-018 Controllers)

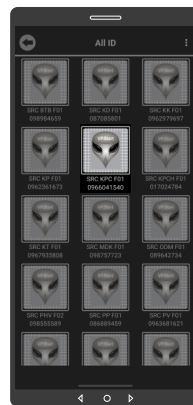


Fig. 111

To rename VP.Start ID hold on VP.Start ID icon.



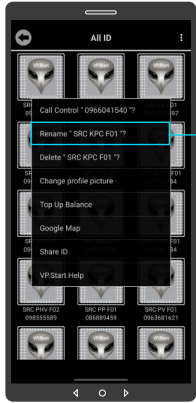


Fig. 112

Click on "Rename".

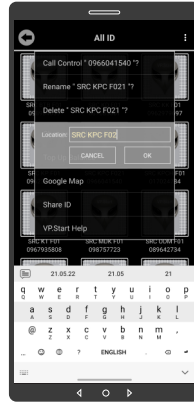


Fig. 113

Rename existing name. And click on "OK" button.

23 Delete VP.Start ID

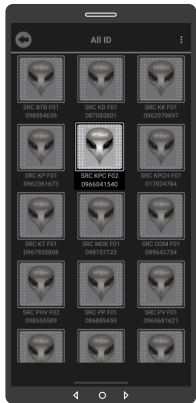


Fig. 114

Controller's name changed.

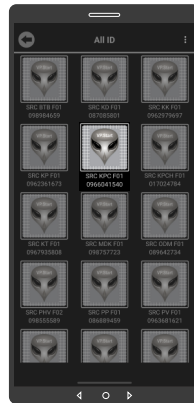


Fig. 115

To delete VP.Start ID, hold on VP.Start ID icon.



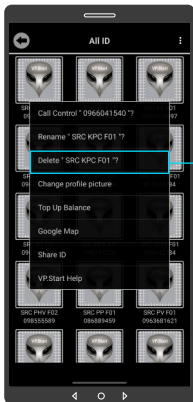


Fig. 116

Click on "Delete". Then click on "OK" button.



Fig. 117

NOTE

"Success" will pop up as a notification message below indicating that the controller has been successfully deleted from the system.

24 Clear Alarm



Fig. 118

To Clear Alarm, hold on alarmed VP.Start ID.

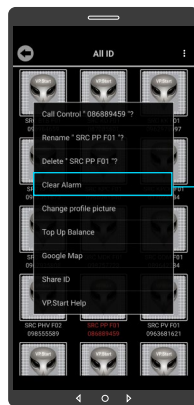


Fig. 119

Click on "Clear Alarm". Click on "Back" sign.

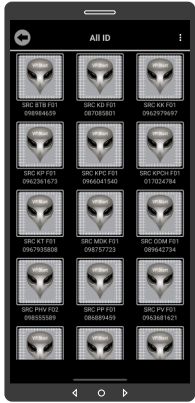


Fig. 120

Alarm VP.Start ID cleared.

25 Change Profile Picture



Fig. 121

To change profile picture, hold on VP.Start ID icon.

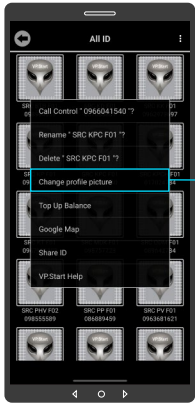


Fig. 122

Click on "Change profile picture"

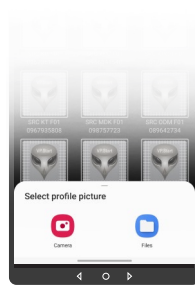


Fig. 123

Take photo from "Camera" or choose photo from "File" and select photo. And confirm by "OK" button.



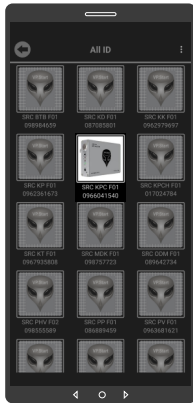


Fig. 124

Profile picture changed.

26 Delete Profile Picture

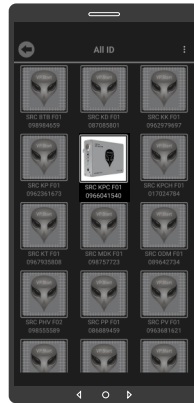


Fig. 125

To Delete profile picture, hold on VP.Start ID icon.

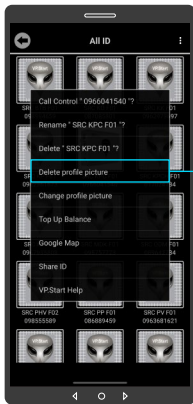


Fig. 126

Click on "Delete profile picture".
And confirm by "OK" button.

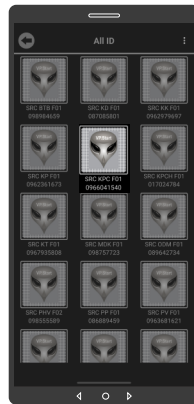


Fig. 127

Controller profile picture deleted.

NOTE

Success will pop up as a notification message below indicating that the controller has been successfully deleted from the system.

27 Top Up/Check Balance

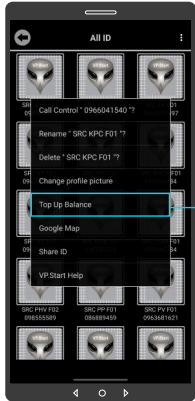


Fig. 128

To top up or check balance, hold on VP.Start ID icon and click on "Balance".

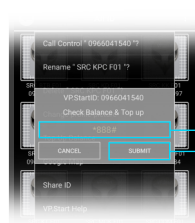


Fig. 129

Input the top up or check balance command.
Click on "SUBMIT" to send the "Check or top up balance" command to the controller.

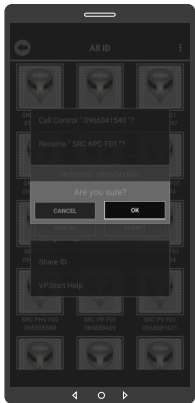


Fig. 130

Confirm by "OK" button.

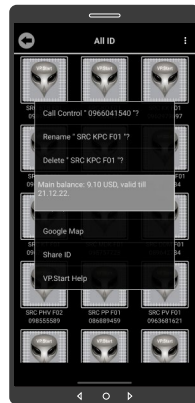


Fig. 131

Balance interface showed.



28 Google Map

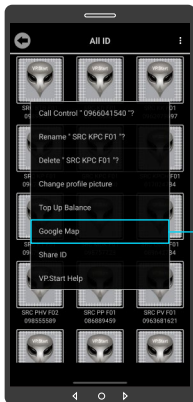


Fig. 132

To view Google Map with Drive Mode to VP.Start controller, Click on "Google Map".

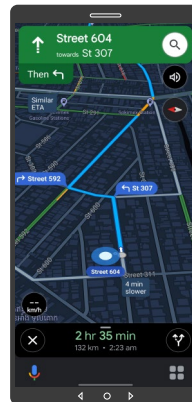


Fig. 133

Google Map Drive Mode showed.

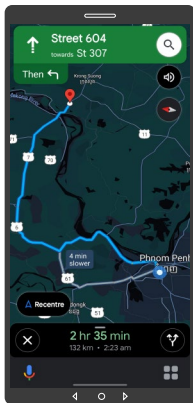


Fig. 134

Click on "X" sign to view in Google Map view.

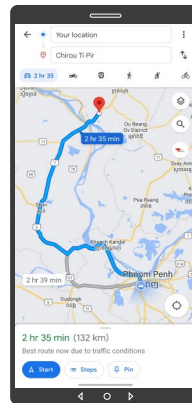


Fig. 135

Google Map viewed.

29 Share ID

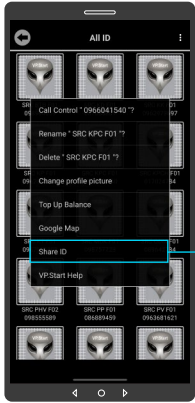


Fig. 136

To share VP.Start ID to other phone to share VP.Start ID icon and click on "Share ID".

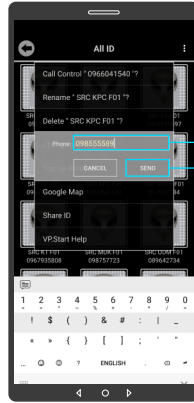


Fig. 137

Click to write phone number to share.

Click on "SEND" button.

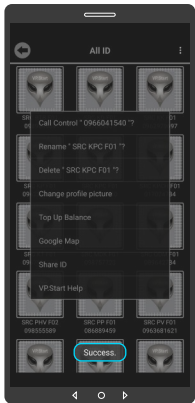


Fig. 138

NOTE
 "Success" will pop up as a notification message below indicating that you have successfully shared the DRC-018 controller's ID and controller information to another phone number as a SMS as shown in Fig. 138.

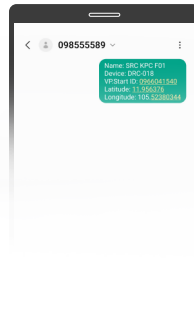


Fig. 139

NOTE
 Controller ID and information displayed as an SMS with a shared number.

30 VP.Start Help

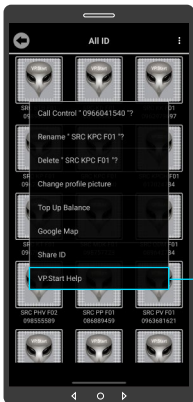


Fig. 140

To alert to call center immediately for help, hold on VP.Start ID icon and Click on "VP.Start Help".

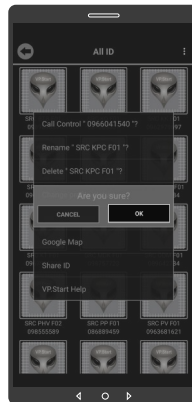


Fig. 141

Click on "OK" button. The app will command the DRC-018 controller to automatically share its ID information and call directly to VP.Start's call center to alert to support team immediately.

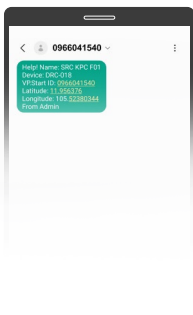


Fig. 142

NOTE
As shown in Fig. 142, the DRC-018 controller will share its ID to VP.Start's call center

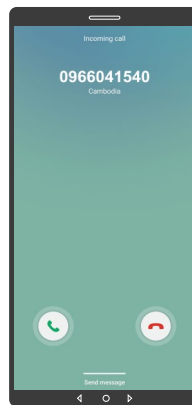


Fig. 143

NOTE
As shown in Fig. 143, the DRC-018 controller is calling VP.Start's call center to immediately alert to the support team.



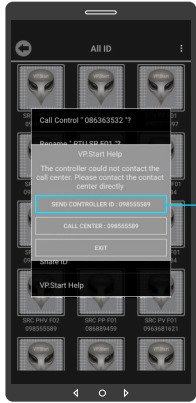


Fig. 144

If the controller is inaccessible for any reason, the app can be used to manually send the controller ID to the VP.Start call center. Click on "SEND CONTROLLER ID: 09855589" to execute the Command. And confirm by "OK" button.

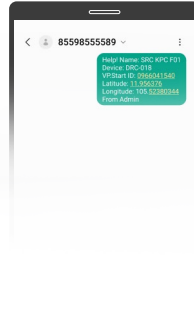


Fig. 145

NOTE

The user has shared the controller's ID manually with VP. Start's call center as shown in Fig. 145.

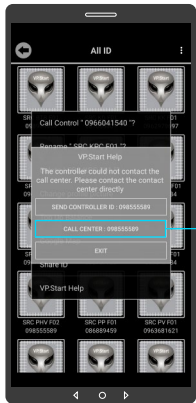


Fig. 146

Or Click on "CALL CENTER: 09855589" to call to VP. Start's call center.

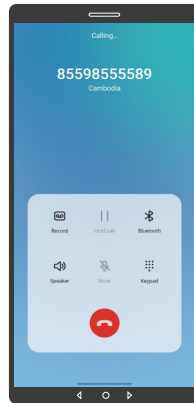


Fig. 147

NOTE

User has manually executed the command to call VP. Start's call center.



31 Alarm System



Fig. 148

Switchgear OFF Alarm.

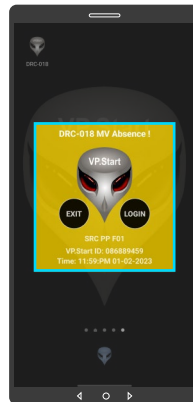


Fig. 149

MV Absence Alarm.



Fig. 150

MCB Switch OFF Alarm.

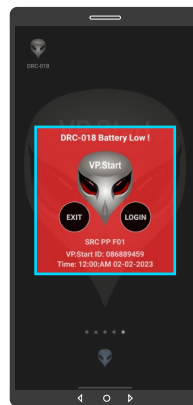


Fig. 151

Battery Low Alarm.





Fig. 152

NOTE

☑ An alarm notification message will appear whenever the system detects a problem such as Switchgear OFF, MV Absence, MCB Switch OFF and Battery Low.

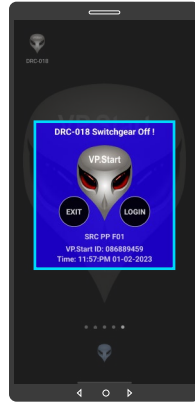
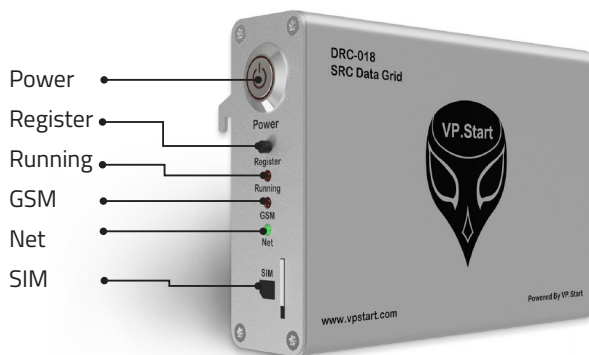


Fig. 153

NOTE

- ☑ Click on "LOGIN" to login controls interface panel.
- ☑ Click on "EXIT" to exit an alarm notification message.

TROUBLESHOOTING



LED Light Status Explanation

LED Light	LED Status	System Working Status
Power	Off	The Power button is not turned On. No power input.
	Red	Power On
Running	Red (blinking every 1s)	Running normally
GSM	Red On	GSM On
	Off	GSM Off
Net	64ms On/800ms Off	GSM has not registered to a network
	64ms On/3000ms Off	GSM has registered to a network
	64ms On/300ms Off	GPRS communication
	Off	GSM is not running



Test Serial DRC-018 Controller

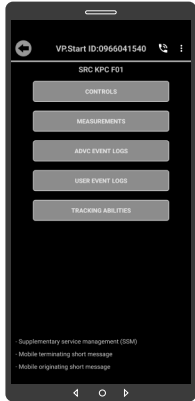


Fig. 01

To Test Serial DRC-018 Controller, click on "Menu Option" sign.

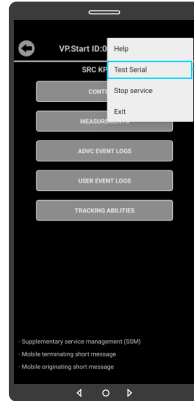


Fig. 02

Click on "Test Serial".



Fig. 03

Connect pin 2 to pin 3 on DRC-018 controller.

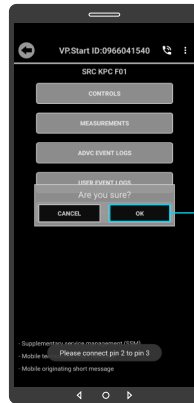


Fig. 04

Click on "OK" button.



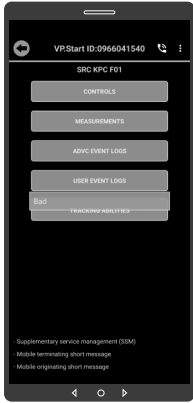


Fig. 06

Serial Error.

NOTE
The notification message "Bad" indicating that DRC-018 controller's Serial Error.

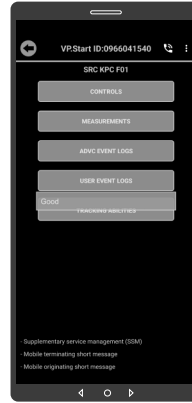


Fig. 07

Serial OK.

NOTE
The notification message "Good" indicating that DRC-018 controller's Serial OK.

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