



DRC-010

USER GUIDE




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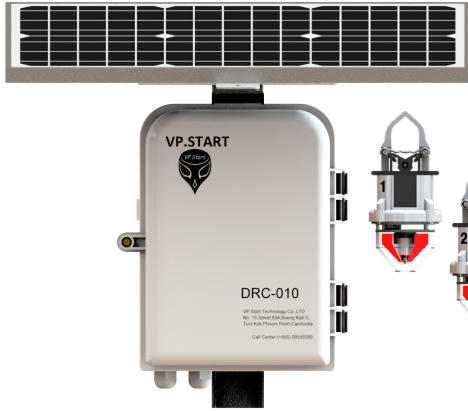


INTRODUCTION

The DRC-010 is a smart controller for overhead lines, temporary and permanent power line fault indicators. With the DRC-010, management and sectionalization of overhead distribution lines are now easier, faster and inexpensive for operators. Operators benefit from vital data-driven insights on overhead line activities, such as temporary or permanent faults for enhanced monitoring benefits. This amongst other features operators can access through Smartphone app or RPM Grid system (PC) results in higher energy reliability for consumers (min 80% down-time reduction), lower OPEX/CAPEX, better asset protection and higher safety for maintenance crews.



PRODUCT OVERVIEW



DRC-010 PRODUCT SET

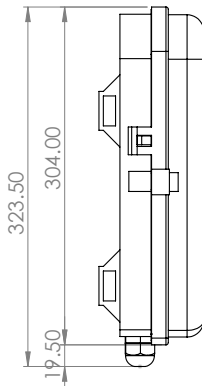
DRC-010 DEVICE



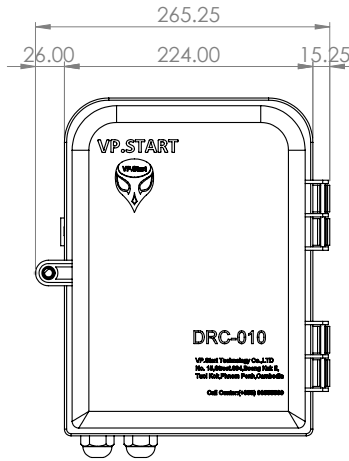
HARDWARE DIMENSIONS



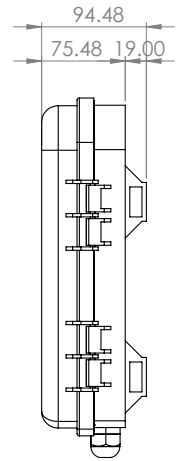
3D View



Side View



front View



Side View



SPECIFICATIONS & FEATURES

Description

Specifications

DRC-010

Country of Origin	Cambodia
Manufacture's Name	VP.Start Technology
Manufacture's Reference	DRC-010
GSM/GPRS	GSM/GPRS, 900/1800 MHz
GPS Accuracy	Horizontal Positioning Accuracy: 2.5m High Positioning Accuracy: 3.5m
Battery	12 Vdc
Working Temperature	0°C to 65°C
Working Humanity	30% to 95%
Solar Panel Supply for Rechargeable Battery	Yes
Solar Panel	20 w
SIM Card Support	Micro SIM
GSM & GPRS Antenna	Yes
GPS Antenna	Yes
RF (433MHz) Antenna	Yes
Load Current/Event Display	Via Smartphone/PC



Remote Control Functions & Features

Setting Functions:

Alarm Control (On/Off)	Yes
------------------------	-----

Current Warning	Yes
-----------------	-----

Line Name (Up to 3 Feeders)	Yes
-----------------------------	-----

Monitoring Features:

Measurement (Load Current Line System Battery Voltage FI Voltage Battery Fault Current).	Yes
--	-----

Line Status (Normal/Temporary/Permanent)	Yes
--	-----

GSM Signal Strength (1–30)	Yes
----------------------------	-----

Controller Location (on Google Map by Using the Tracking Abilities Function).	Yes
---	-----

Alarm Notifications:

Permanent Fault Alarm	Yes
-----------------------	-----

Temporary Fault Alarm	Yes
-----------------------	-----

High Current Warning Alarm	Yes
----------------------------	-----

System Low Battery Alarm	Yes
--------------------------	-----

Software Management:

Add/Remove User	Yes
-----------------	-----

Add/Remove Controller (DRC-010)	Yes
---------------------------------	-----



View all Users	Yes
View all Controller (DRC-010)	Yes
Controller ID Setting & Tracking Abilities	Yes
Map Views	Yes
Check/Top-Up Balance	Yes

Call Control Functions

Key Tone Control:

Read Load Current (3 Phase, & Up to 3 Feeders on Same Pole)	Yes
Power Line Status (Permanent/Temporary/Normal)	Yes

Supporting Features:

Language (Khmer)	Yes
Voice Instruction	Yes
Be able to Control Fault Indicators	Up to 9 (FI) Modules for 3 Feeders on Same Pole (Above, Middle and Below)
User Management	≤15
Fault Indicator Setting Group	Yes
Software Support	Support PC/Smart Grid System/ Android Application
Support Google Map View	Yes



Overhead Fault Indicator

Model	SNV-308
Manufacturing Standards	ANSI/IEEE495- 1988; Q/GPW 436-2010
Type of Installation	Overhead Line
Rated Voltage	6kV to 76 kV
Current Rating	up to 1,000 A
Rating Frequency	50/60 Hz
Fault Indicator	<ul style="list-style-type: none"> ▪ Permanent fault ▪ Temporary fault
Automatic Alarming of Fault	<ul style="list-style-type: none"> ▪ Permanent ▪ Temporary
Communication Range with DRC-010	≤50 (Line of Sight, Max to ≤100m)
Two Battery in Side	Yes
Li-Iron Rechargeable Battery for Working	Li-Ion, 3.2V 600m Ah
Li-Iron Battery for Back Up mAh	Li-Ion, 3.6V 2200mAh
Solar Panel Supply for Rechargeable Battery	Yes
Self Power Charging From MV Line	Yes
Battery Life	8 to 10 Years
Angle of Visibility	°360 Flashing Insight

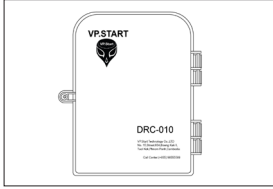


Fault Flashing	Every 1 Second
LED Indicator Fault	Flashing
Sampling Accuracy	I < 10A ($\pm 1\%$) I > 10A ($\pm 2\%$)
Static Power Consumption	20 μ A
Auto Reset Time	1 to 48 (User-Selectable) Hour
Identification of Fault Current Duration	≥ 40 ms
Short Circuit Current	16 (2 Seconds) KA
Protection Rating Level	IP67
Humidity	30% to 93%
Temperature	0°C to 55°C
Weight	750g
Outline Dimension	L=80mm x W=80mm x H=185mm

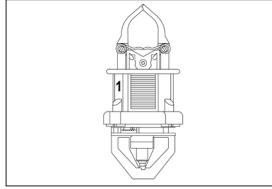


INSTALLATION INSTRUCTIONS

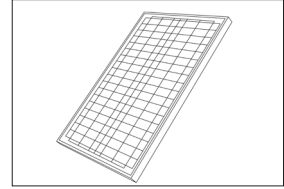
ACCESSORIES



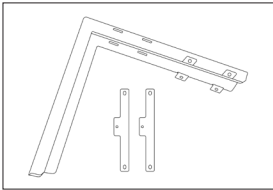
DRC-010 Controller (1pc)



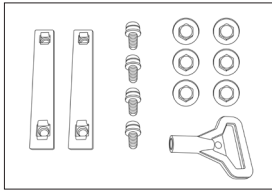
Fault Indicator (FI) (3pcs)



Solar Panel 18V/20W (1pc)

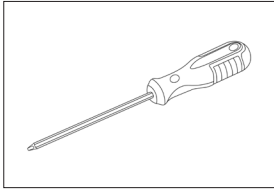


Solar Support (1set)

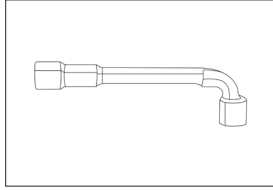


Solar Screw (1set)

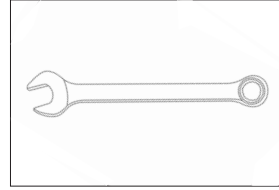
SUPPORTING TOOLS



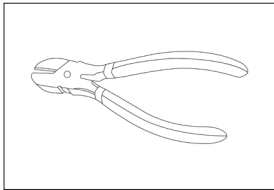
Screwdriver PH2



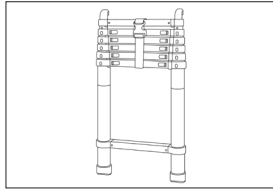
L Type Wrench 10mm



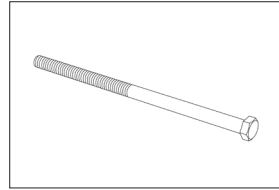
Open-End Wrench 10mm



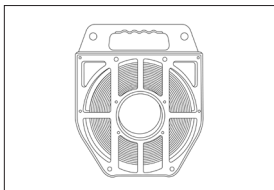
Diagonal Cutting Pliers



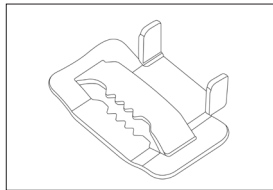
Ladder



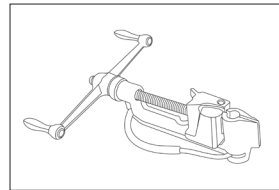
Climbing Steel



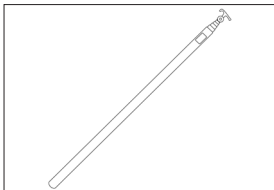
Stainless Steel Strap



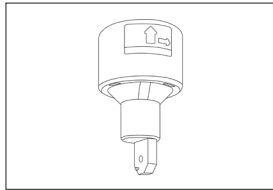
Stainless Steel Strapping Buckle



Stainless Steel Strap Spinner Tensioner



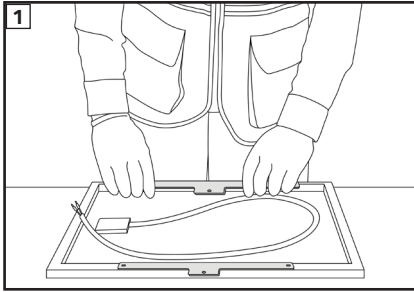
Telescopic Hot Stick



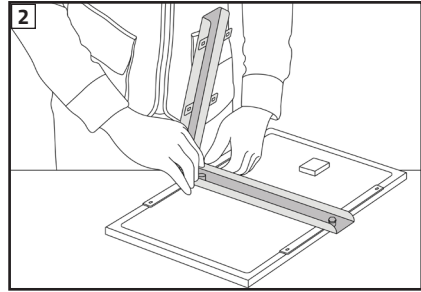
Mounting Adapter FI



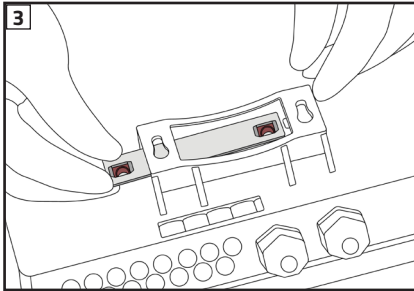
CONTROLLER INSTALLATION PROCESS



1
Install Solar Panel and Solar Support with 4 Solar Bolts.



2
Install Solar Support with other 2 Solar Bolts.

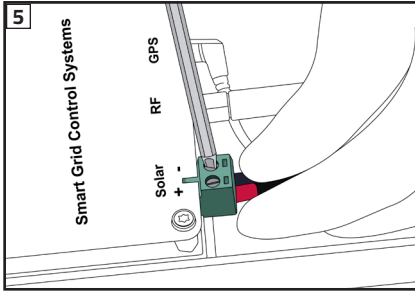


3
Insert Controller Support in DRC-010 Controller.

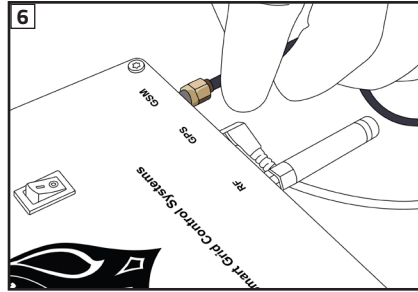


4
Install Solar Panel and its support with Controller Support and DRC-010 Controller by 4 bolts.

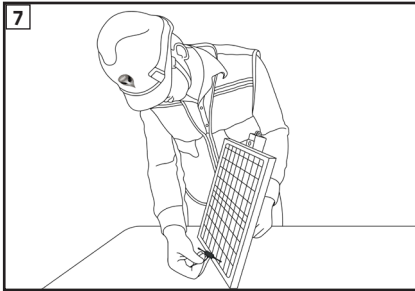




Connect Solar Cable with Solar connector.



Connect GSM antenna cable with GSM connector.



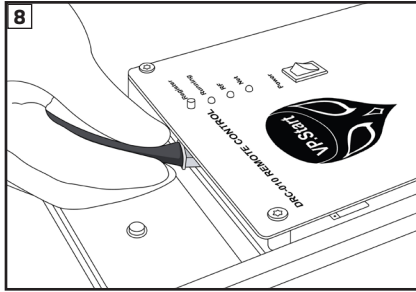
Install GSM Antenna on Solar Support or appropriate area on site.

NOTE

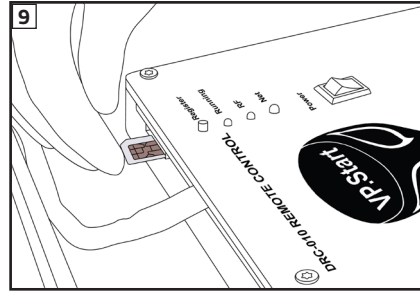
📍 The area that allows the antenna to get better signal strength.



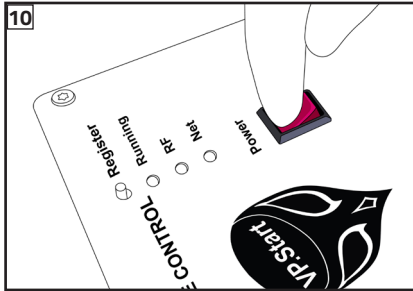
INSTALLATION INSTRUCTIONS



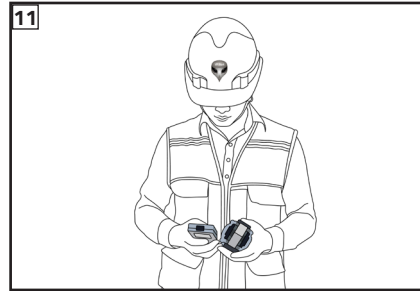
Connect battery cable with battery connector.



Insert micro SIM into SIM Slot on DRC-010.



To Start up the DRC-010, turn on Power button.



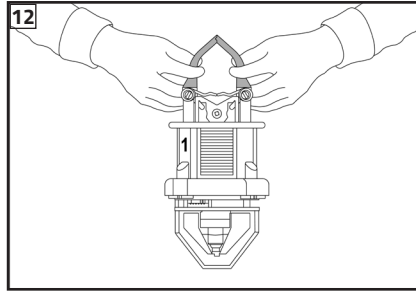
Setting all 3 Fault Indicator (FI) parameters by PDA.



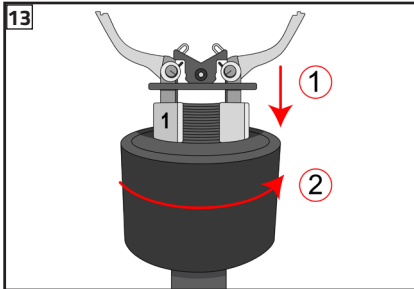
NOTE

Fault Indicator parameter setting:

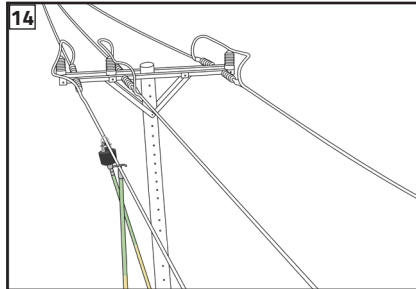
- 📍 Terminal Address 📍 Response Delay
- 📍 Reclosing Time 📍 Longest Time
- 📍 Trip Current 📍 Upload Time
- 📍 Short Circuit



Install all 3 Fault Indicators, open CT sensor.

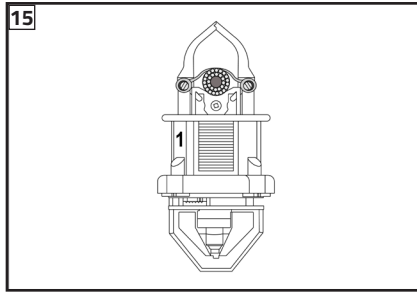


Insert Fault Indicator in Adapter FI then rotate to right.



Install 1st Fault Indicator to Phase A, by push up Fault Indicator to the power line then rotate Adapter FI to left.

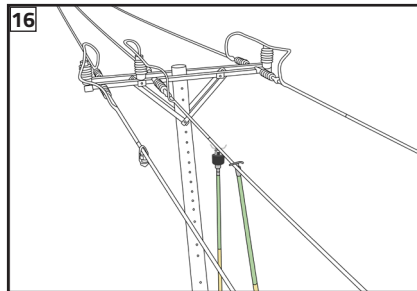




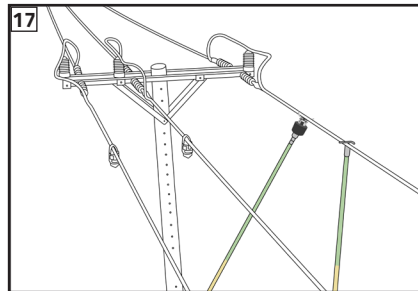
The right Fault Indicator installation.

NOTE

⚠ The Fault Indicator Spring Clip closes with the power line.

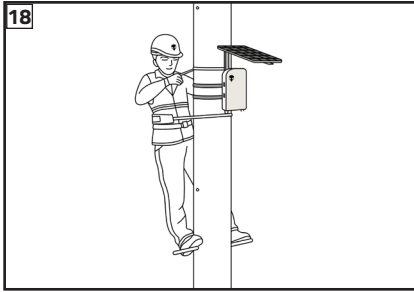


Install 2nd Fault Indicator to Phase B.

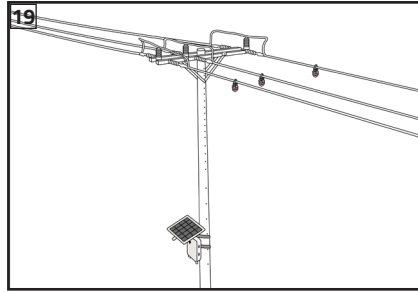


Install 3rd Fault Indicator to Phase C.





Install DRC-010 on the pole.



DRC-010 Solution installed.



APP USER GUIDE

Mobile Phone Interface Usage

01 How to Install DRC-010 App on Smartphone

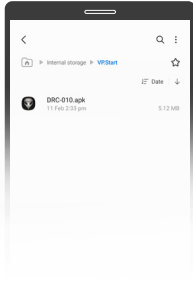


Fig. 01

Click on "DRC-010 .apk" to install.

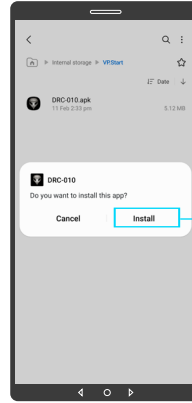


Fig. 02

Click on "Install".

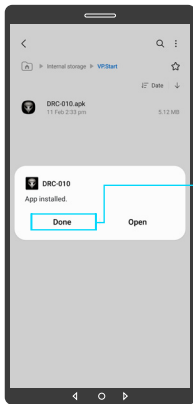


Fig. 03

Click on "Done" to finish.



Fig. 04

DRC-010 App installed.

02

Create User Account



Fig. 05

Click on "DRC-010 App" to open App.

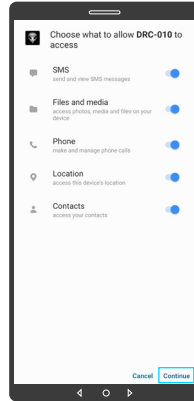


Fig. 06

If the system pop up allow DRC-010 to access.

Then click on "Continue".



Fig. 07

Create User Account login interface.

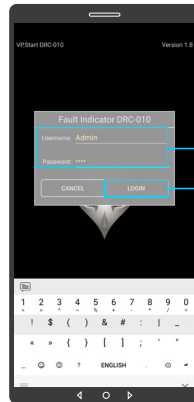


Fig. 08

Create: Username and Password.

Then click on "LOGIN".



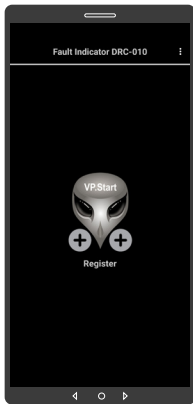


Fig. 09

NOTE

When installing the DRC-010 smartphone application for the first time, users will have to register the first DRC-010 controller before they can access other functions.

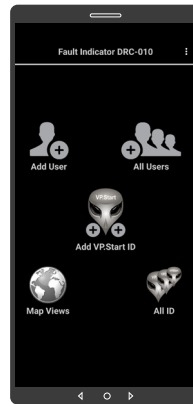


Fig. 10

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-010 App" to open App.

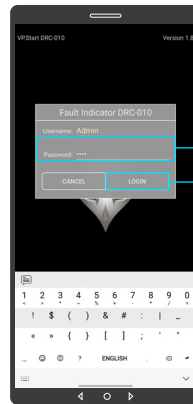


Fig. 12

Input the Password.

Click on "LOGIN".



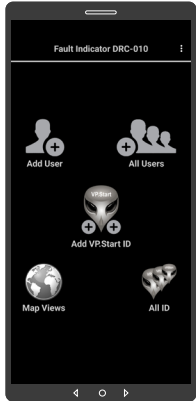


Fig. 13

DRC-010 App functions.

04 Service

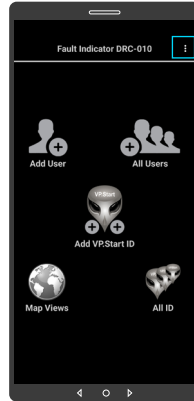


Fig. 14

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

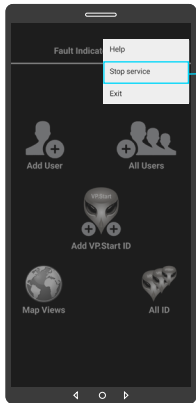


Fig. 15

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-010 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.

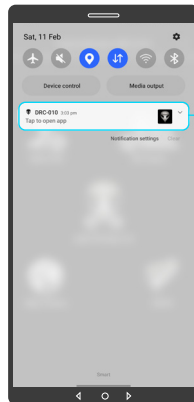


Fig. 18

Alarm service is running when your smartphone has enabled DRC-010 alarm service as shown in Fig. 18.

05 Adding Users

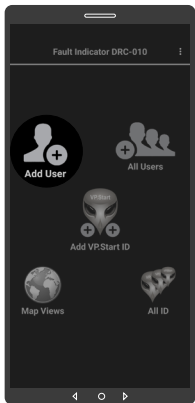


Fig. 19

Click to open "Add User".

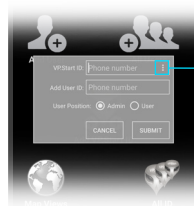


Fig. 20

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



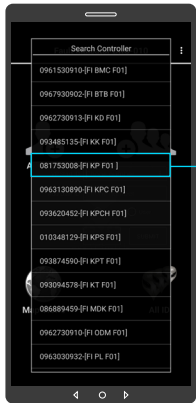


Fig. 21

Click to choose a VP.Start ID.

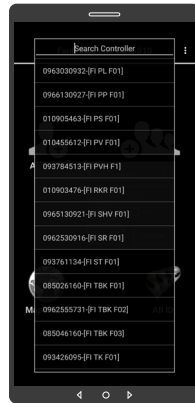


Fig. 22

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

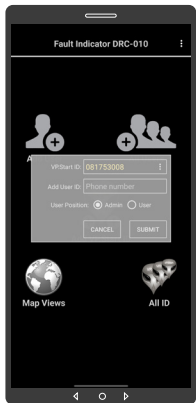


Fig. 23

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.

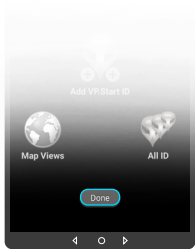


Fig. 25

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

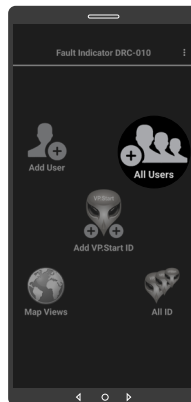


Fig. 26

Click to open "All Users".



Fig. 27

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

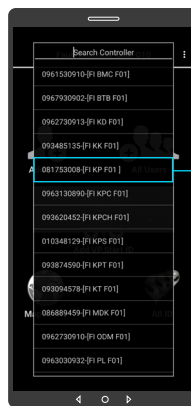


Fig. 28

Choose a VP.Start ID.



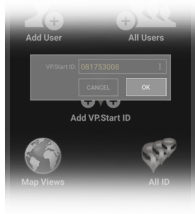


Fig. 29

Confirm by "OK" button.



Fig. 30

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

07 Delete User

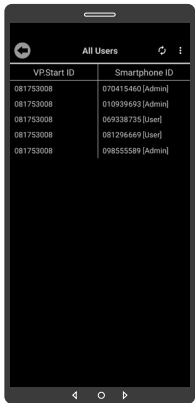


Fig. 31

All Users view.

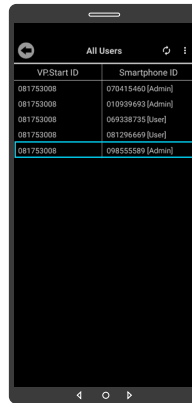


Fig. 32

To delete user from your DRC-010, hold on user number.





Fig. 33

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



Fig. 34

User deleted.

08 Add VP.Start ID

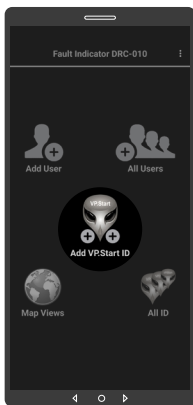


Fig. 35

Click to open "Add VP.Start ID".

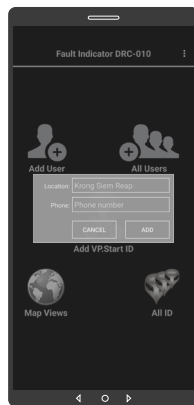


Fig. 36

Add VP.Start ID interface.





Fig. 37

Click to write location name (DRC-010 name).
 Click to write VPStart ID (DRC-010 phone number).



Fig. 38

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

09 Map Views

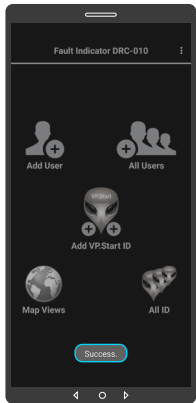


Fig. 39

NOTE

The application will display "Success" as a pop up notification to confirm the registration of the DRC-010 controller into the system.

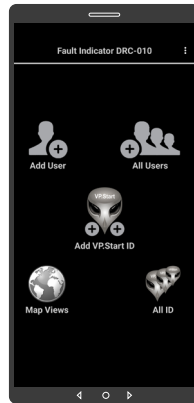


Fig. 40

Scroll down notification bar.



Fig. 41

Turn on location.

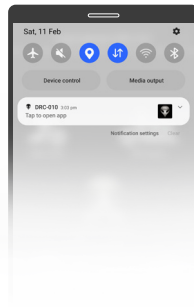


Fig. 42

Turn on Internet.



Fig. 43

Click to open "Map Views".

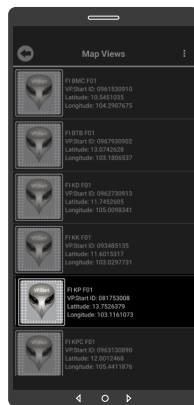
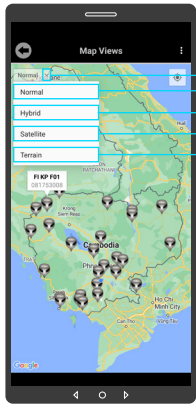


Fig. 44

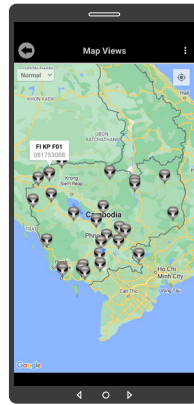
Select a VP.Start ID.





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

Fig. 45



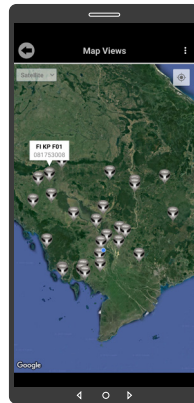
Normal view

Fig. 46



Hybrid view

Fig. 47



Satellite view

Fig. 48



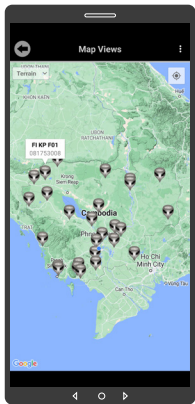


Fig. 49

Terrain view

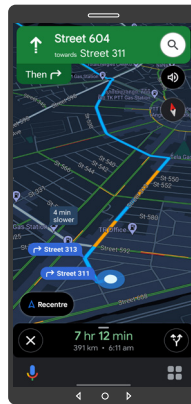


Fig. 50

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

10 Map Views (Change Map Coordinates)

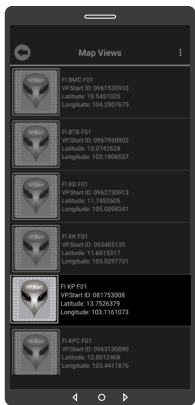


Fig. 51

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

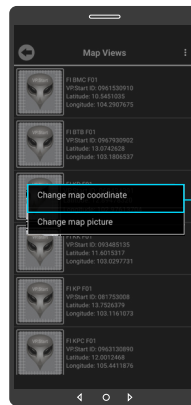
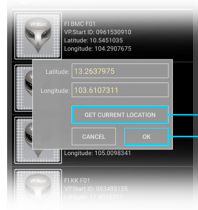


Fig. 52

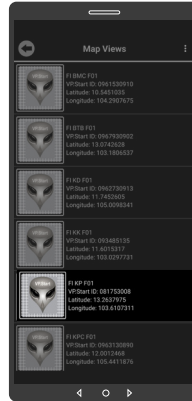
Click on "Change map coordinates".





Click on "GET CURRENT LOCATION".
Click on "OK" button.

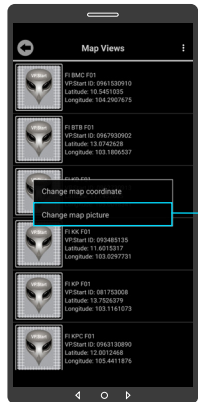
Fig. 53



DRC-010 location changed.

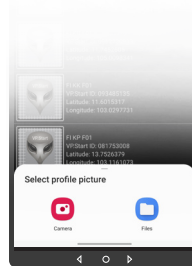
Fig. 54

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

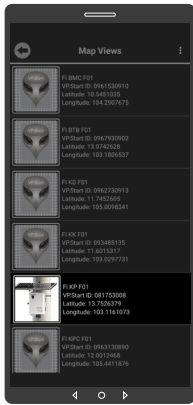


Fig. 57

DRC-010 map picture changed.

12 Map Views (Delete Map Picture)

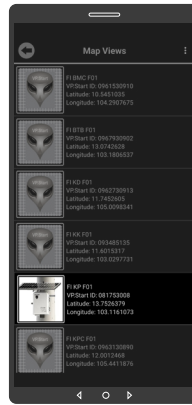


Fig. 58

To Delete Map Picture, hold on map picture.

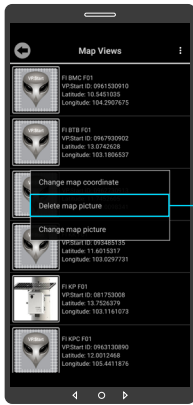


Fig. 59

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

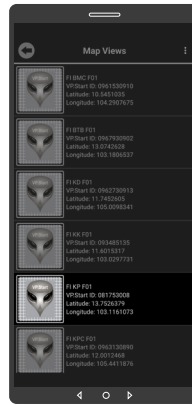


Fig. 60

DRC-010 map picture deleted.

13 All ID

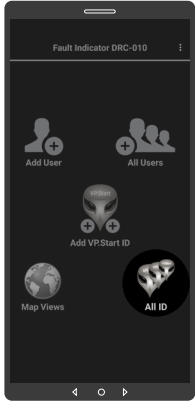


Fig. 61

Click on "All ID".

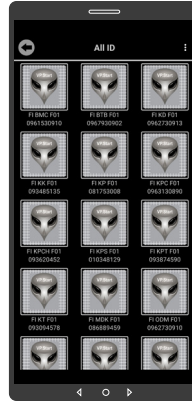


Fig. 62

All VP.Start ID view.

14 Measurements Interface



Fig. 63

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

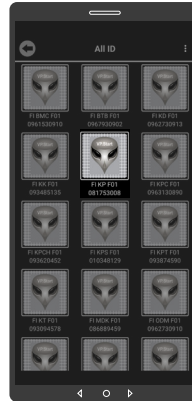


Fig. 64

Select a VP.Start ID.

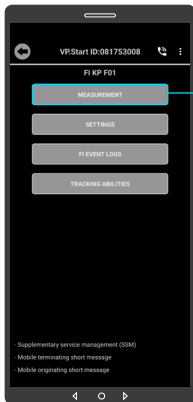


Fig. 65

Click on "MEASUREMENTS".

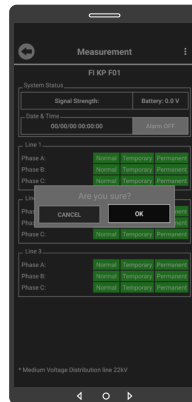


Fig. 66

Click on "OK" button.



Fig. 67

Measurements Interface.



Fig. 68

To turn Alarm off, click on "Alarm ON" button.



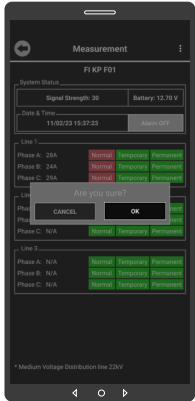


Fig. 69

Click on "OK" button.

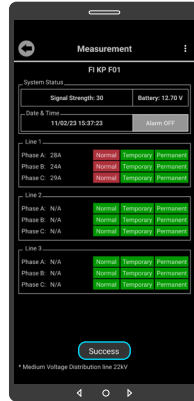


Fig. 70

Alarm off success.

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

15 Settings Interface

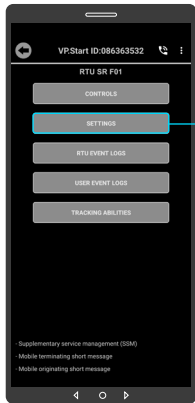


Fig. 71

Click on "SETTINGS".

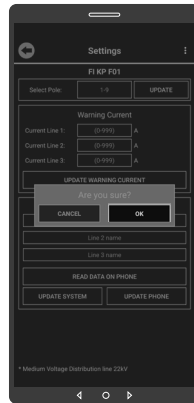


Fig. 72

Click on "OK" button.



Fig. 73

NOTE
 The "DRC-010 Controller version" will pop up as a notification message.



Fig. 74

Settings Interface.



Fig. 75

To set DRC-010 pole address.



Fig. 76

Select DRC-010 pole address from 1-9.

NOTE
 Setting DRC-010 pole address to protect conflict of nearby DRC-010.



Fig. 77

Click on "OK" button.

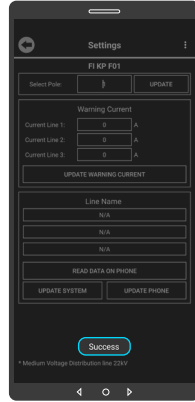


Fig. 78

NOTE
 "Success" will pop up as a notification message below indicating that you have set "DRC-010 pole address" success.



Fig. 79

To set Warning Current.

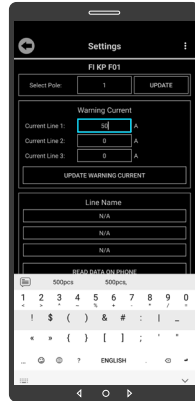


Fig. 80

Set Warning Current value for line 1, 2 or 3.

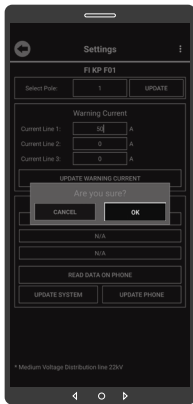


Fig. 81

Click on "OK" button.

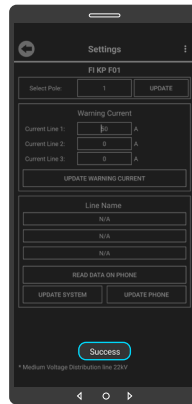


Fig. 82

NOTE

"Success" will pop up as a notification message below indicating that you have set "DRC-010 pole address" success.



Fig. 83

To set Line Name.



Fig. 84

Set up Line Name for Line 1, Line 2 or Line 3.



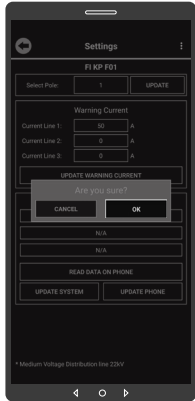


Fig. 85

Click on "OK" button.



Fig. 86

NOTE
 "Success" will pop up as a notification message below indicating that you have set "Line Name" success.

16 FI Event Logs Interface



Fig. 87

Settings Interface.



Fig. 88

Click on "FI EVENT LOGS".



Fig. 89

Click on "Refresh" button to read FI Event Logs.

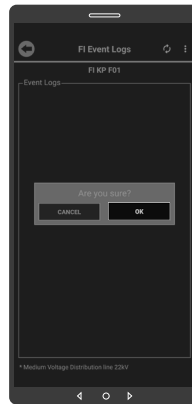


Fig. 90

Click on "OK" button.

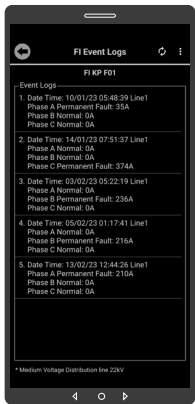


Fig. 91

FI Event Logs Interface.



Fig. 92

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



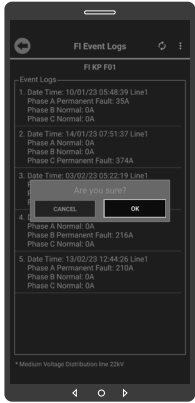


Fig. 93

Confirm by "OK" button.

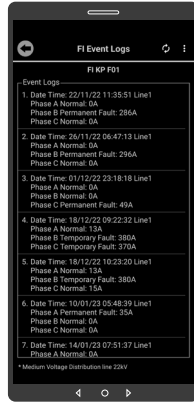


Fig. 94

More FI Event Logs showed.

17 Delete FI Event Logs Interface



Fig. 95

NOTE
 Scroll up or down to view more FI Even Logs.



Fig. 96

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



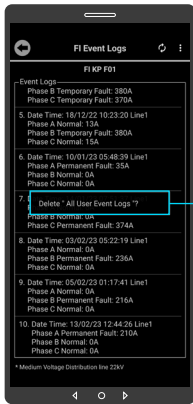


Fig. 97

Click on "Delete All FI Event Logs", and click on "OK" button.

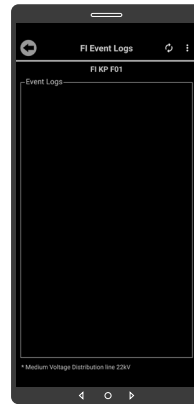


Fig. 98

FI Event Logs deleted from App interface.

18 Tracking Abilities Interface

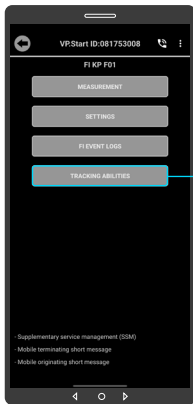


Fig. 99

Click on "TRACKING ABILITIES".

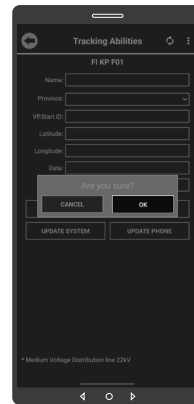
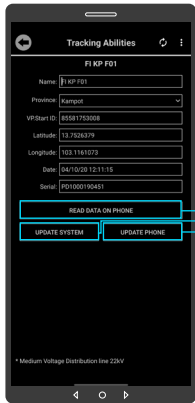


Fig. 100

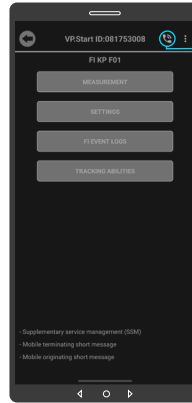
Confirm by "OK" button.

19 Remote "Call Control"



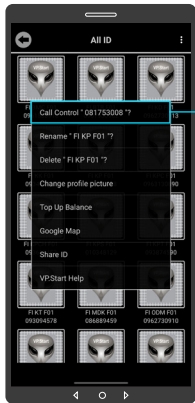
- Click to read data on phone.
- Click to update data from system to phone.
- Click to update data from phone to system.

Fig. 101



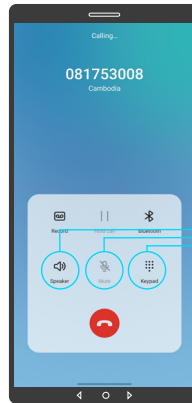
- Click on "Call" button to initiate call control.

Fig. 102



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

Fig. 103



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

Fig. 104

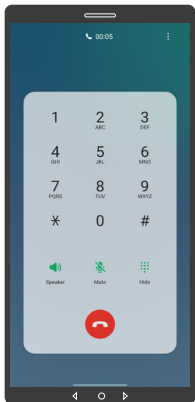


Fig. 105

Remote call control interface.

CALL CONTROL

Click on ① for Khmer.

Click on ② for English.

Click on ③ for an introduction to its features and an explanation of how to use the DRC-010.

Click on ④ for "1st Line Status".

Click on ⑤ for "2nd Line Status".

Click on ⑥ for "3rd Line Status".

Click on ⑧ for "Re-start controller".

20 Renaming VP.Start IDs (DRC-010 Controllers)

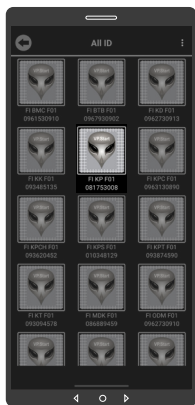


Fig. 106

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

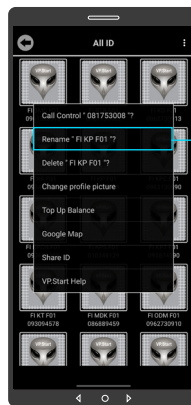


Fig. 107

Click on "Rename".





Fig 108

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

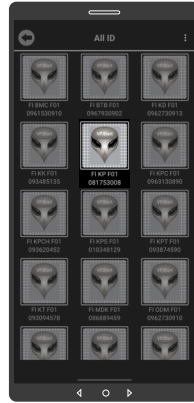


Fig 109

Controller's name changed.

21 Delete VP.Start ID

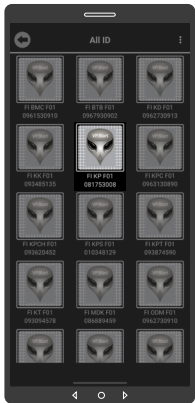


Fig 110

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



Fig 111

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





Fig. 112

NOTE

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

22 Clear Alarm

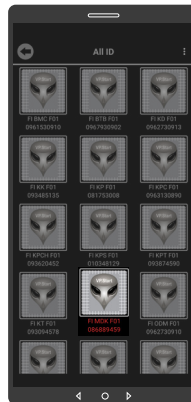


Fig. 113

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



Fig. 114

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

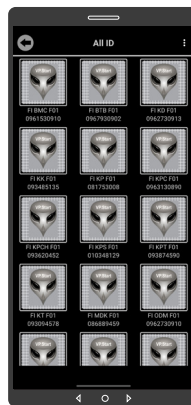


Fig. 115

Alarm VP.Start ID cleared.



23 Change Profile Picture



Fig. 116

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

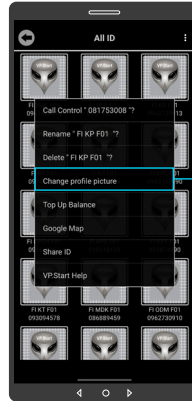


Fig. 117

Click on "Change profile picture"

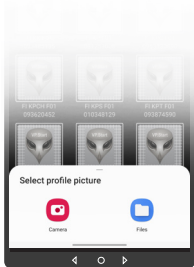


Fig. 118

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

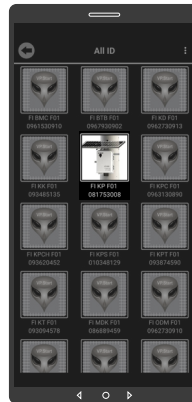


Fig. 119

Profile picture changed.



24 Delete Profile Picture

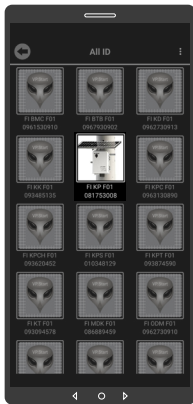


Fig. 120

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

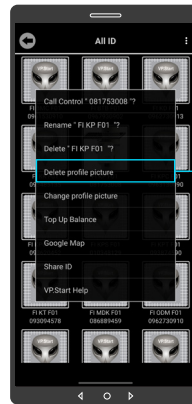


Fig. 121

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



Fig. 122

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.

25 Top Up/Check Balance

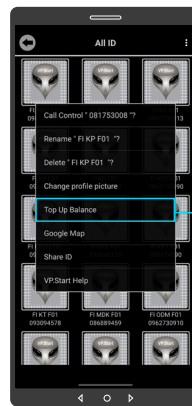


Fig. 123

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



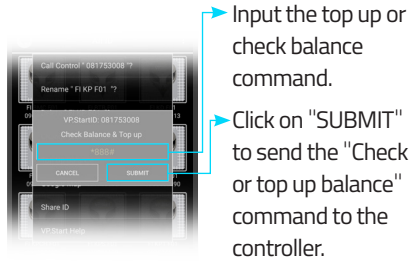


Fig. 124

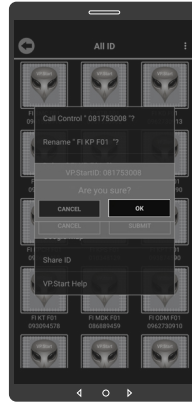


Fig. 125

26 Google Map



Fig. 126

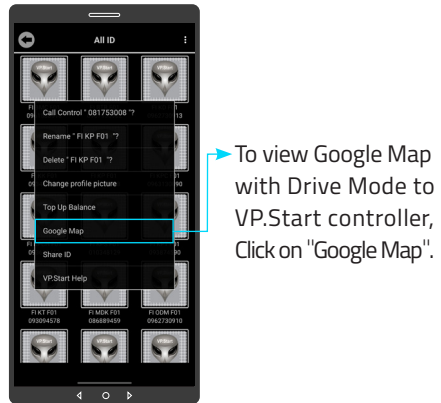


Fig. 127



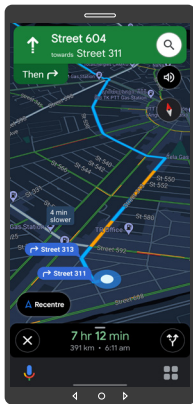


Fig. 128

Google Map Drive Mode showed.

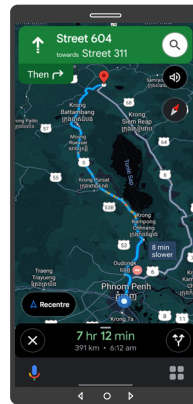


Fig. 129

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

27 Share ID

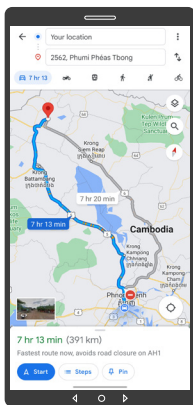


Fig. 130

Google Map viewed.



Fig. 131

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





Fig. 132

Click to write phone number to share.

Click on "SEND" button.

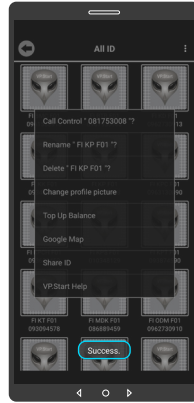


Fig. 133

NOTE

"Success" will pop up as a notification message below indicating that you have successfully shared the DRC-010 controller's ID and controller information to another phone number as a SMS as shown in Fig. 133.

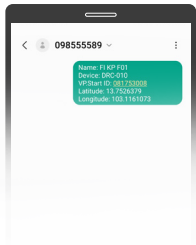


Fig. 134

NOTE

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

28 VP.Start Help

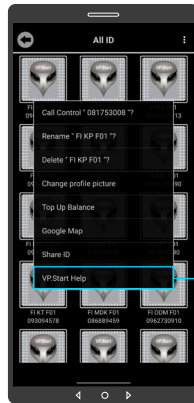


Fig. 135

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

Click on "VP.Start Help".





Fig. 136

Click on "OK" button. The app will command the DRC-010 controller to automatically share its ID information and call directly to VP.Start's call center to alert the support team immediately.

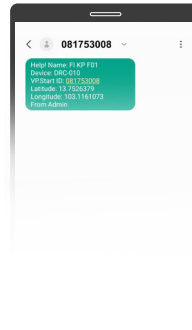


Fig. 137

NOTE
As shown in Fig. 137, the DRC-010 controller shared its ID to VP.Start's call center.

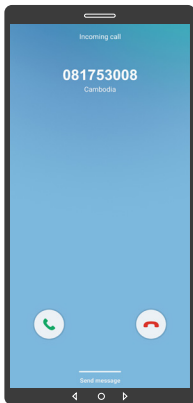


Fig. 138

NOTE
As shown in Fig. 138, the DRC-010 controller is calling VP.Start's call center to immediately alert the support team.

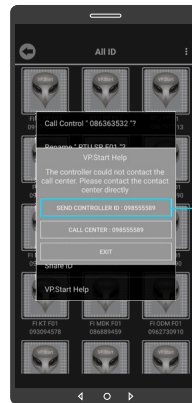


Fig. 139

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.



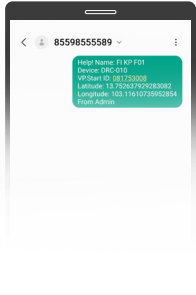


Fig. 140

NOTE

The user has shared the controller's ID manually with VP. Start's call center as shown in Fig. 140.

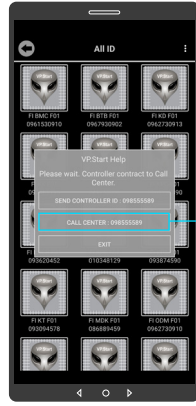


Fig. 141

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

29 Alarm System

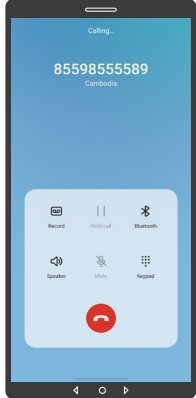


Fig. 142

NOTE

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

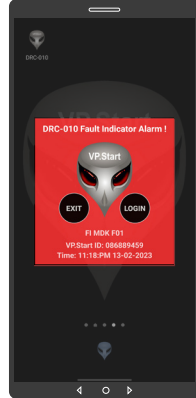


Fig. 143

Fault Indicator Alarm.

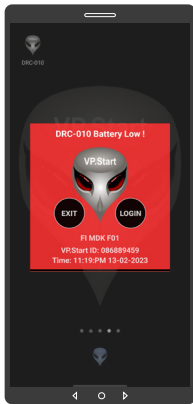


Fig. 144

Battery Low Alarm.

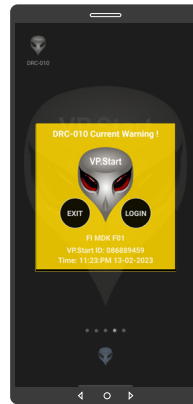


Fig. 145

Current Warning Alarm.



Fig. 146

NOTE

An alarm notification message will appear whenever the system detects a problem such as Fault Indicator Alarm, Battery Low Alarm and Current Warning Alarm.

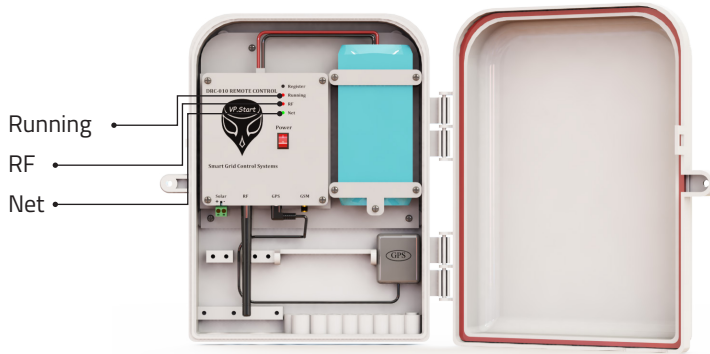


Fig. 147

NOTE

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

TROUBLESHOOTING



LED Light Status Explanation

LED Light	LED Status	System Working Status
Running	Red (blinking every 1s)	Running normally
RF	Flashing	DRC-010 communicate with FI
	Off	Miscommunication between DRC-010 and FI
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

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