

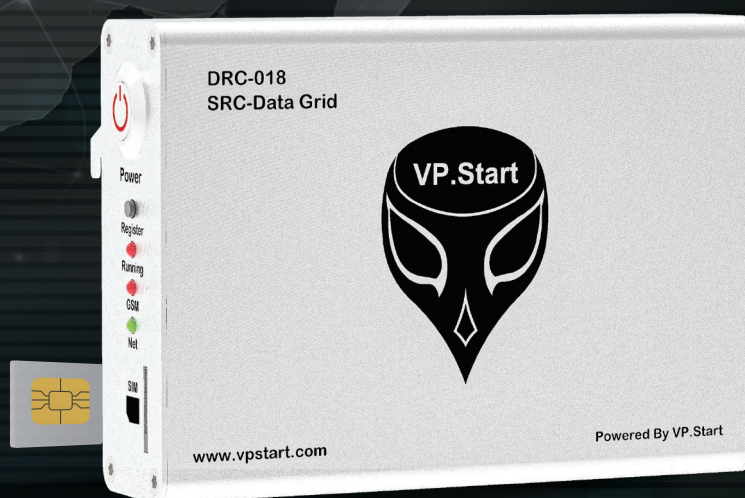


# SMART GRID SOLUTIONS

SIMA Grid, SIMA City, SIMA Home, SIMA Universe, SIMA Big Data

**DRCs**              ...

## DRC-018



VP-DOC-S.CTL-DRC-018.EN-V2.1

Creating a one-stop eco-sustainability system to transform the entire conventional grids into digital smart grid systems that streamline electrical grid management, optimize efficiency, reduce operational costs, and increase cost efficiency, making the grid more reliable and sustainable.



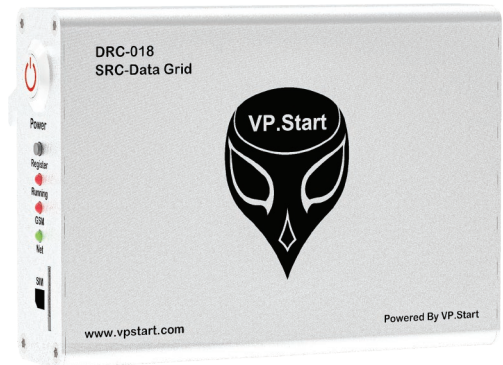
# DRC-018

## Smart Grid IoT Controller for Sectionalizer

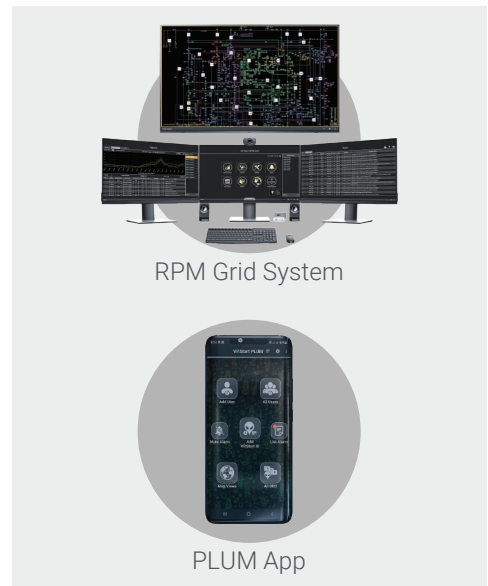
DRC-018 is a smart grid IoT controller designed to modernize Schneider Sectionalizer (RL Series) that is utilized in medium voltage distribution networks (22kV & 35kV).

This robust solution transforms the way to manage and operate the Sectionalizer to digital operation.

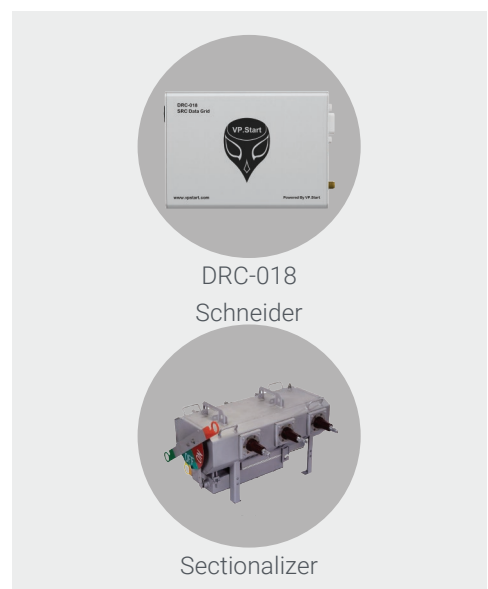
With our proprietary management system, PLUM or the RPM Grid, utilities streamline their operation, reduce outage duration, leading to make their grid network more resilient and reliable.



▲ DRC-007 Installation



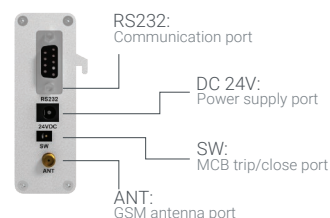
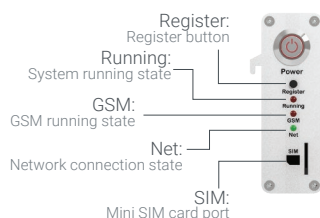
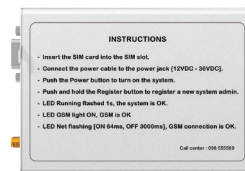
▲ DRC-018 Remote Control With Sectionalizer



## Key Features

Remote Control Capability:	Swiftly the manual operation of Schneider Sectionalizer to digital operation with just a few touches on your smartphone or the RPM Grid system. The DRC-018 provides a remote control function that is fast, safe, and efficient in daily network operation.
Instant Alarm Notification:	The DRC-018 instantly detects faults and sends the fault information to the utilities' smart-phone using the PLUM App or the RPM Grid system. The alarm clearly identifies the types of faults, including switchgear off, System low battery, and door open.
Abnormal Detection:	Problems inside the Sectionalizer may arise at any time. Sometimes utilities don't know and continue operating the Sectionalizer until it fails. This can impact grid operations, prolong outage durations, and increase maintenance costs. The DRC-018 detects every problem occurring inside the Sectionalizer, allowing operators to immediately monitor the condition and health of the equipment.
Real-time Data Monitoring:	With the DRC-018, utilities can monitor the power supply status quickly at any time. They can check the sectionalizer's switchgear status (whether it is On or Off) using our intuitive PLUM mobile application or the RPM Grid System.
Reporting & Event Logs:	The DRC-018 recorded all faults that happened on the power lines. This outstanding feature saved various reports for analysis and allowed the operators to create a prompt decision making to improve the network management.
Map View:	The Map View function provides a clear and accurate location of DRC-018. Operators can easily identify its location when faults occur, enabling fast fault management and ensuring reliable grid management.

## Product Look and Dimension





# DRC-018 Alarms Notification



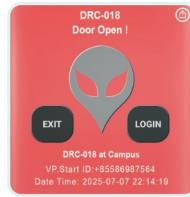
Switchgear Off



MV Absence



Communication  
Maintenance



Door Open



Battery Low



MCB Switch Off

## Product Specification

### Remote Control Unit

Country of Origin	• Cambodia
Manufacture's Name Technology	• VP.Start
Manufacture's Reference	• DRC-018
Remote Control for Schneider Sectionalizer (RL Series)	• Yes
Remote Control Via Smartphone for Schneider Sectionalizer (RL Series) & can be Configured to RPM Grid Software.	• Yes
Supply Voltage Range	• 12 - 36 VDC
Operation Temperature	• 0 to 65 °C
Ambient Temperature Range	• -10 to +70 °C
Operating Humidity	• 30 to 95 %
Communication Interface	• Serial (RS232). • GSM Communication. • GPRS Communication.
Ground Protection (On/Off)	• System Running: Blinking 1s. • System Power: Red LED is ON. • System Network: Green LED Flashing.
Alarm Setting Source Alarm (On/Off), Switchgear Alarm (On/Off)	• PC application: RPM Grid Software Solution. • Mobile Application: DRC-018 Android App.

### Control Functions

Switchgear Control OPEN/CLOSE	• Yes
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### Monitoring Features

Measurement: Current, Voltage, Real Power, Reactive Power, Apparent Power, Power Factor.	• Yes
Switchgear Position: (Open/Close)	• Yes
System Frequency	• 50 to 60 Hz
Control Mode: Local/Remote	• Yes
ADVC Time & Date	• Yes
Battery Voltage	• Yes
GSM Signal Strength	• 1-30
Controller Location on Map	• Yes

### Alarm Notifications

AC Source Supply OFF Alarm	• Yes
Switchgear OFF Alarm	• Yes
CB 220V Switch OFF Alarm	• Yes
System Low Battery Alarm	• Yes

### Reporting & Event log

User Switchgear Control Event Logs	• Yes
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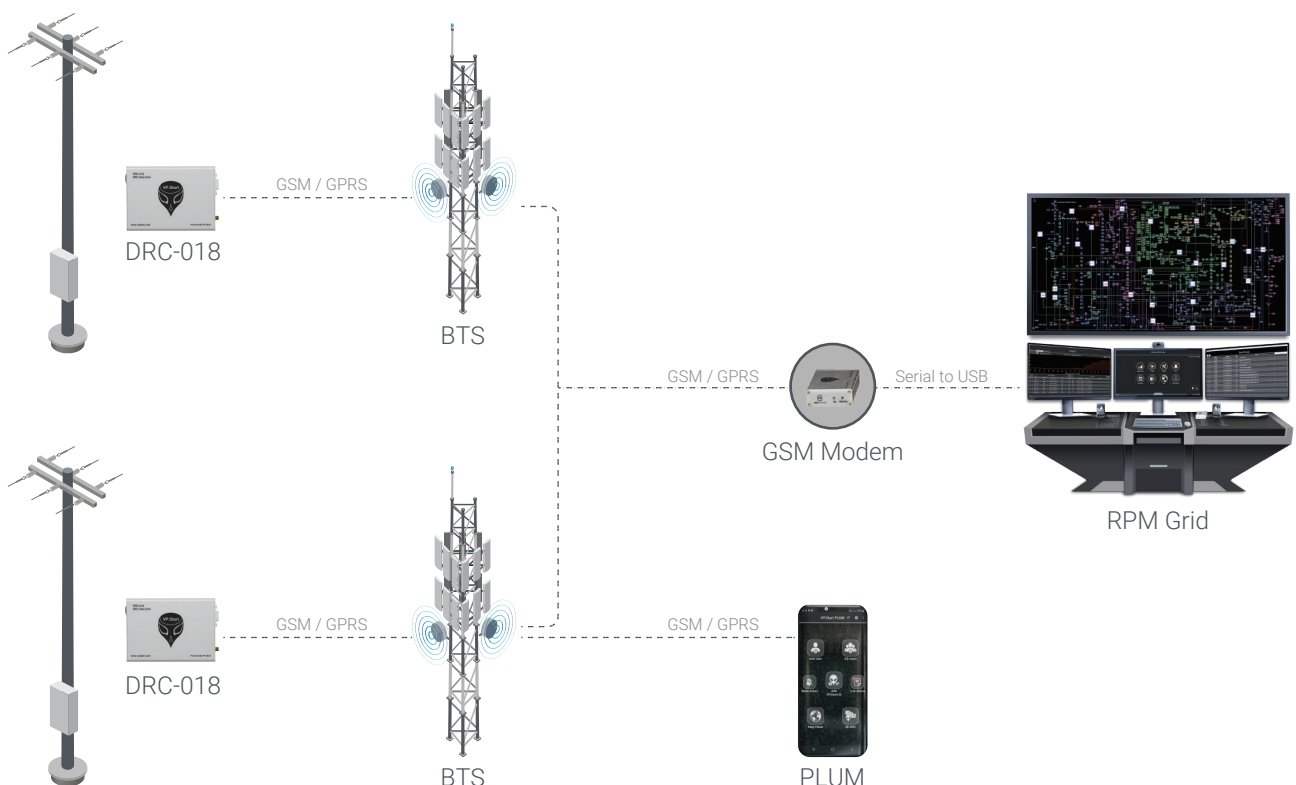
### Key Tone Control Features

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

### Languages & Voice Support

Language: Khmer	• Yes
Voice Instruction	• Yes
Position Mounting	• The Remote Control (DRC-018) is Connected & Mounted Inside the Schneider Sectionalizer (RL Series) Cabinet.

## System Architecture





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