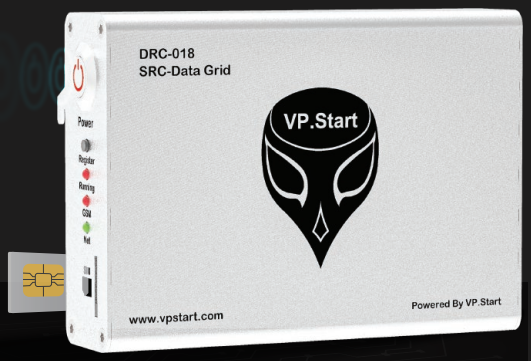
DRC-018

Smart Grid IoT Controller for Sectionalizer



Schneider Sectionalizer
(RL Series)



UNIQUE

Core Capabilities

- Remotely Trip/Close the Sectionalizer
- Receive Instant Alerts When Faults or Anomalies Occur
- Monitor Real-time Grid Data for Faster Decision-Making



Why Is the DRC-018 Crucial for Managing the Distribution Grid Network?

The 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.



▲ Installation is quick and easy



▲ DRC-018



What are the Key Features of the DRC-018?

Remote Control Capability

The DRC-018 provides a remote control capability that is fast, safe, and efficient in daily network operation. This intuitive feature reduces operational costs, increases cost efficiency, making the grid network more reliable and sustainable.

Instant Alarm Notification

The DRC-018 instantly detects faults and sends the fault information to the utilities' smartphone 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.

DRC-018 Alarms Notification



Switchgear Off



MV Absence



Communication Maintenance

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.

Alarms When Anomalies Occur



Door Open



Battery Low



MCB Switch Off

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.

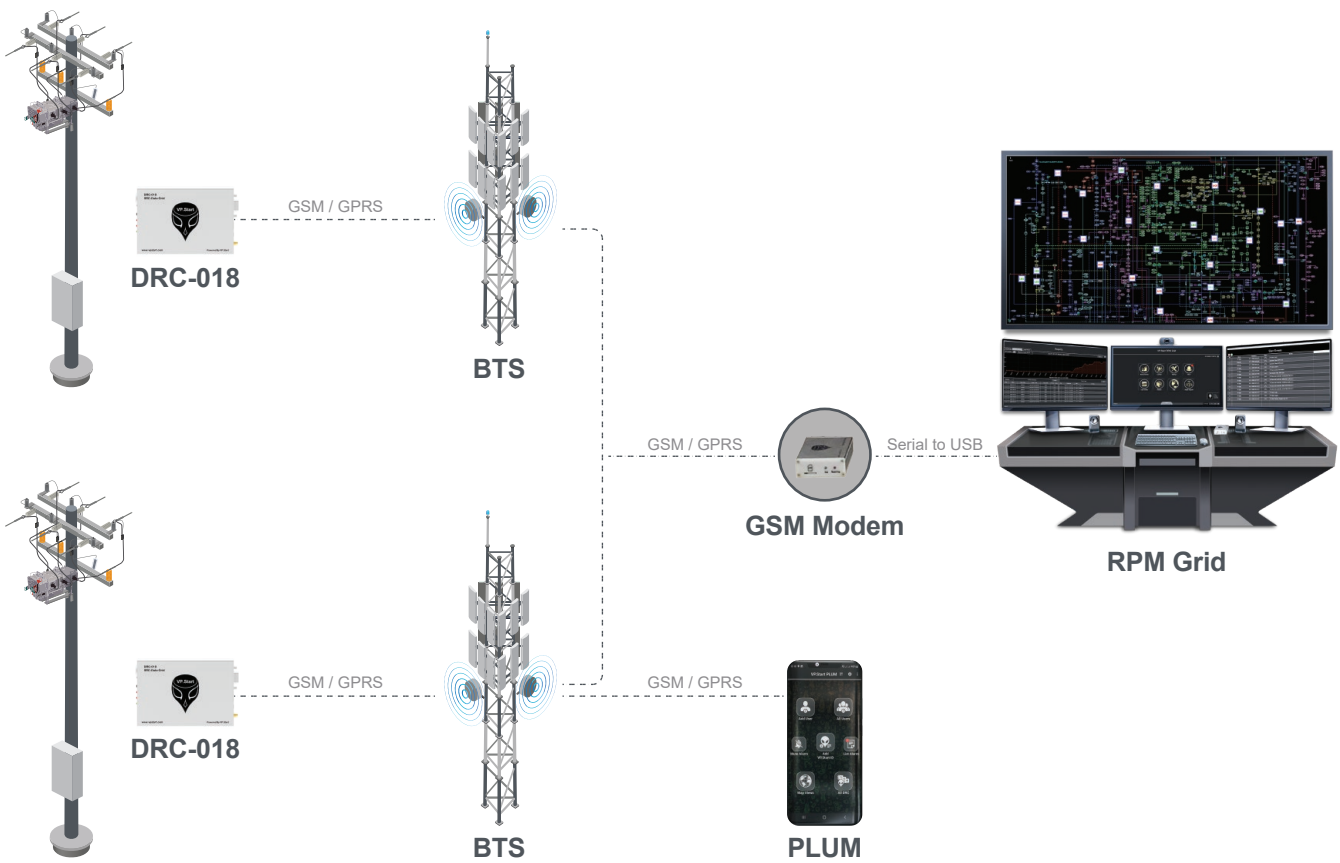
Map View

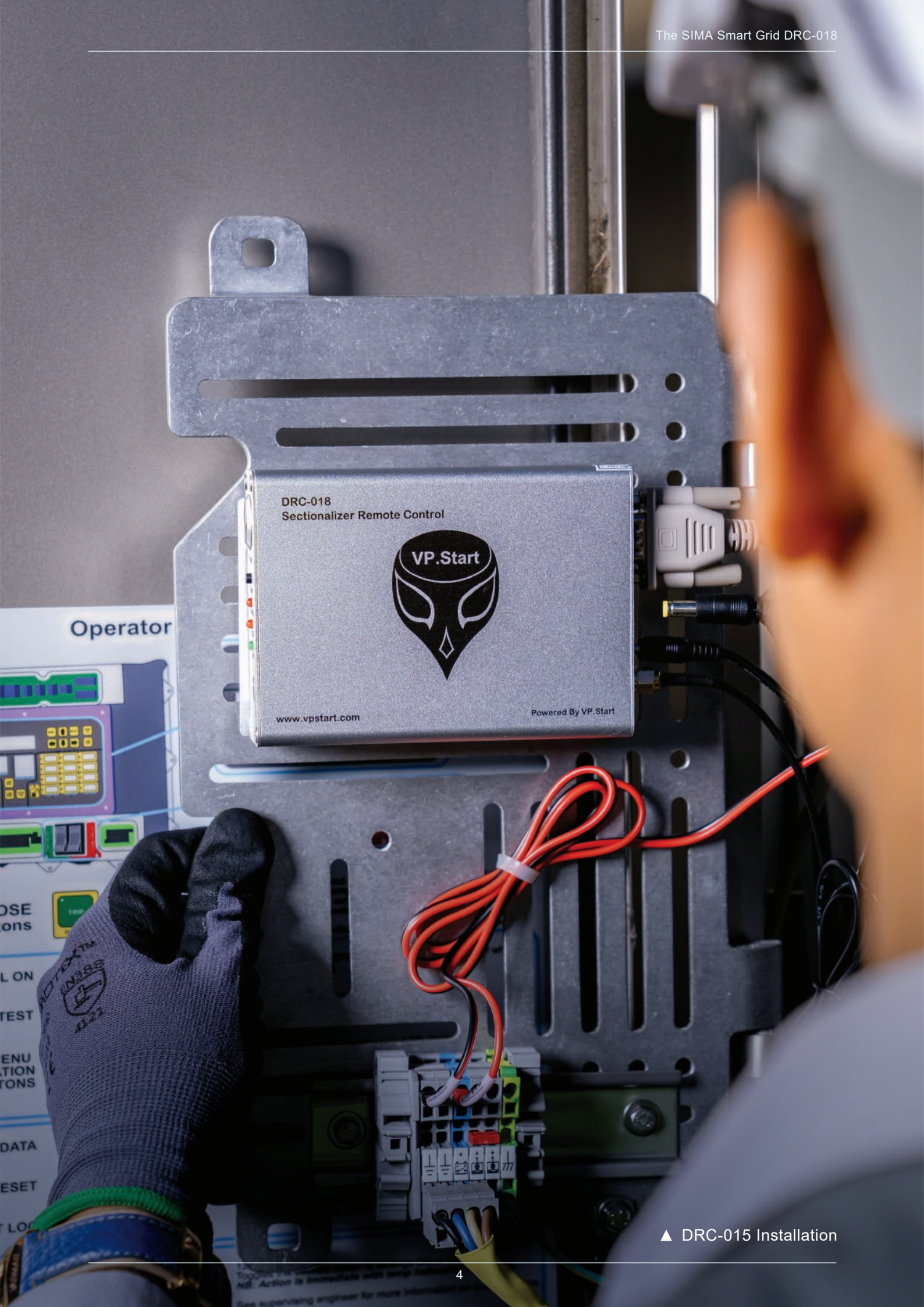
The Map View function provides a clear and accurate location of DRC-018. Operators can easily identify its location when faults occur, enabling fast fault management and ensuring reliable grid management.

Single Diagram

This feature provides a clear, real-time visual representation of the powerline network, enabling operators to quickly pinpoint the exact location of faults or anomalies. By visualizing the network and identifying affected sections, operators can assess the situation faster, make informed decisions, and respond more efficiently to minimize outage duration and improve grid reliability.

System Architecture





▲ DRC-015 Installation