

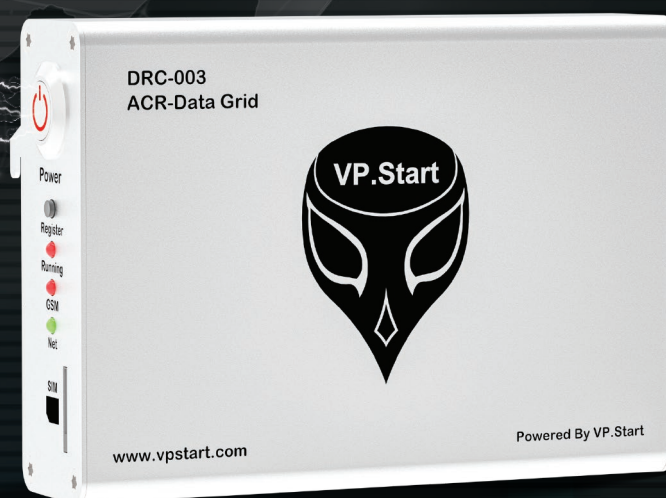


SMART GRID SOLUTIONS

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

DRCs              ...

DRC-003



VP-DOC-S.CTL-DRC-003.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.



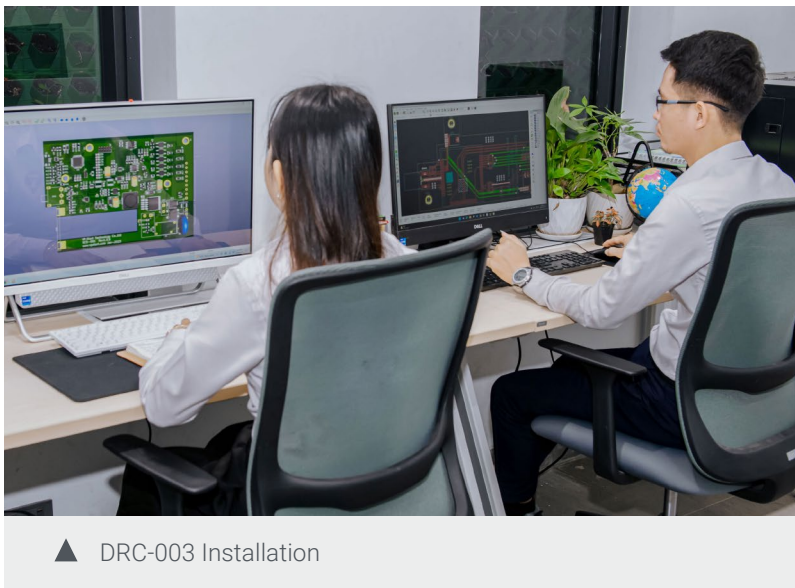
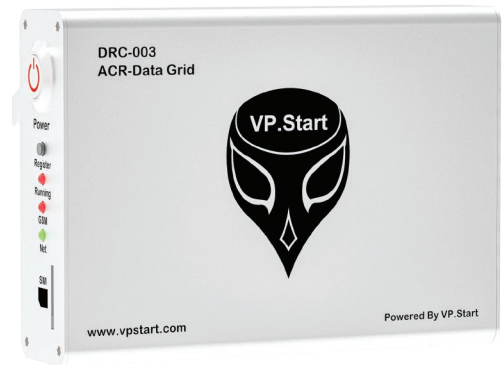
DRC-003

Smart Grid IoT Controller for Auto Recloser

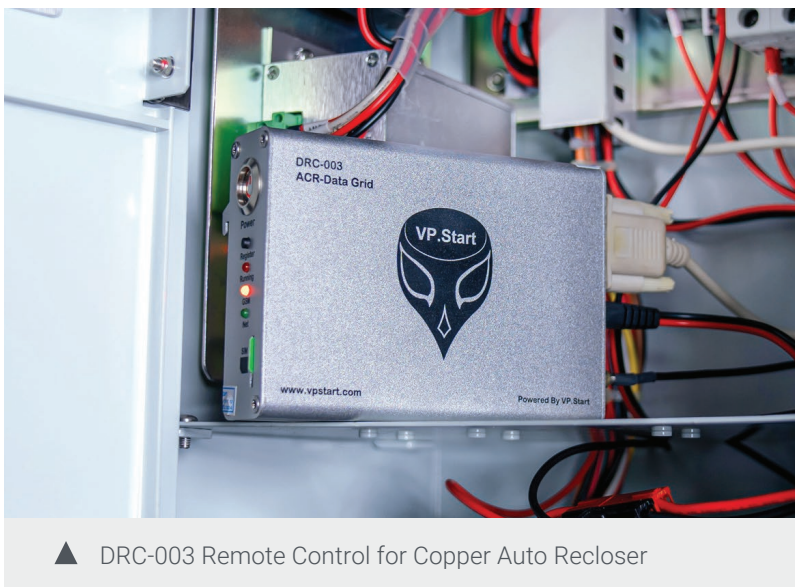
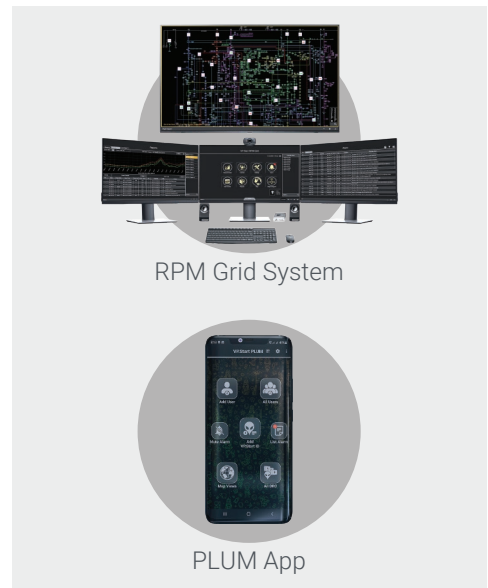
VP.Start has developed the DRC-003 for COOPER Auto Recloser to transform the traditional operation of this COOPER Auto Recloser to a digitally operated system on medium voltage distribution lines (22kV& 35kV). This state-of-art device changed the way to manage and solve the problems of distribution lines, streamlined the operation, minimized outages, and has made the entire grid management more efficient.

The standouts of the DRC-003 are its ability to remote control the ACR switchgear, monitor real-time data that is crucial for reports and analysis, its quick fault detection occurred on the powerlines, and abnormal detection when the controller of COOPER encounters any errors, ensuring quick response to potential issues.

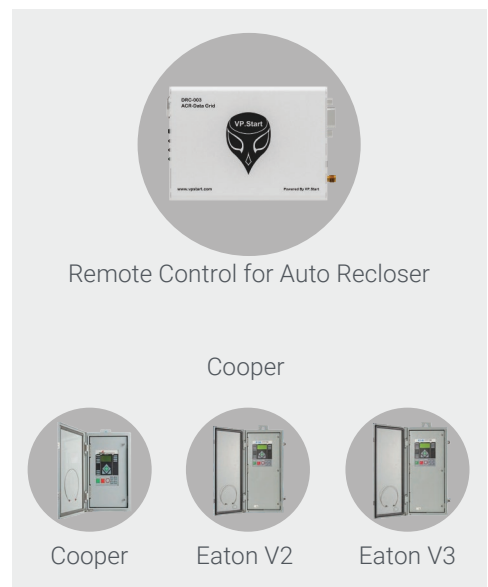
Electrical operators can use our eco-friendly system called PLUM App with a smartphone or our RPM Grid System to manage and tackle those critical challenges rapidly and efficiently, making the grid more reliable and sustainable.



▲ DRC-003 Installation



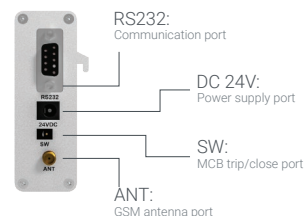
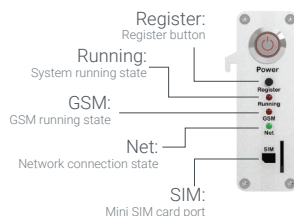
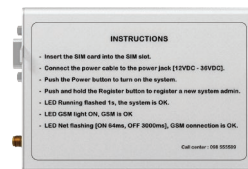
▲ DRC-003 Remote Control for Copper Auto Recloser



Key Features

Remote Control Capability:	With the Controls function, operators can quickly and efficiently manage the Trip/Close operations of Auto Recloser from a distance, using a PLUM App or the RPM Grid System. This remote-control capability helps minimize downtime and keeps the energy reliable to customers.
Alarm Notifications:	Outage frequently occurs on the power lines. When there is no technological device, that will be a prolonged outage duration that brings a huge impact to the consumers. With the Alarm function of DRC-003, operators will receive prompt information when faults happen. This state-of-the-art feature significantly reduces power disruption and increases grid stability and reliability.
Abnormal Detection:	Abnormal feature is another groundbreaking solution that VP.Start created to solve the problems that occurred with the controller of COOPER. This will detect the issues and transmit those issues to the operator rapidly. This feature is very crucial to prevent the potential risks or big problems, keeping the grid still running seamlessly and reliable.
Measurement:	Measurement is a vital feature for monitoring and evaluating the electrical distribution network. It gives operators real-time information into important parameters, such as current, voltage source, apparent power, real power, reactive power, and power factor. With this information, operators can effectively track the network's performance and make informed decisions to ensure everything runs smoothly.
User Events:	User Events provides operators with the history of their activities. This is an essential part of daily operational security, allowing identification of who operated or changed settings in case of any issues.
Reports:	The reports in DRC-003 capture all the key information from the COOPER Auto Recloser. This essential feature will be a must-have document for analyzing and enhancing grid management.
Map:	Operators can now pinpoint the actual location of DRC-003 in Google Maps. They also can identify the fault in the impacted area when any disruption happens.
Single Diagram:	The Single Diagram feature lets operators quickly see where DRC-003 is located on a simple schematic layout. This makes it quick and easy to identify any fault location as well.

Product Look and Dimension



DRC-003 Alarms Notification



Switchgear Off



MV Absence



Communication
Maintenance



Door Open Alarm



Battery Low



MCB Switch Off

Product Specification

Remote Control Unit

Voltage Supply Range	• 12 - 36Vdc
Operating Frequency Bandwidth	• GSM/GPRS: 900/1800 (MHz)
Ambient Temperature Range	• 0 to 65°C
Humidity	• 30% to 95%

Remote Control Functions

Control:

Control Switchgear (Trip/Close)	• Yes
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Configuration Settings:

Alarm Setting: Source Alarm (On/Off), Switchgear Alarm (On/Off)	• Yes
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Monitoring:

Measurements: current, voltage, real power, reactive power, apparent power, power factor, controller version, battery voltage	• Yes
Switchgear Position (Trip/Close)	• Yes
View: Alarm Status, System Status	• Yes
View: Controller location on Google Map by using the Tracking Abilities function	• Yes
View: User Event Logs	• Yes
View: Recloser COOPER Event Logs	• Yes

Remote Control System Software

Smartphone app (Android)	• Yes
RPM-Grid Software (PC)	• Yes

Alarm

SMS/Call-Control Commands:

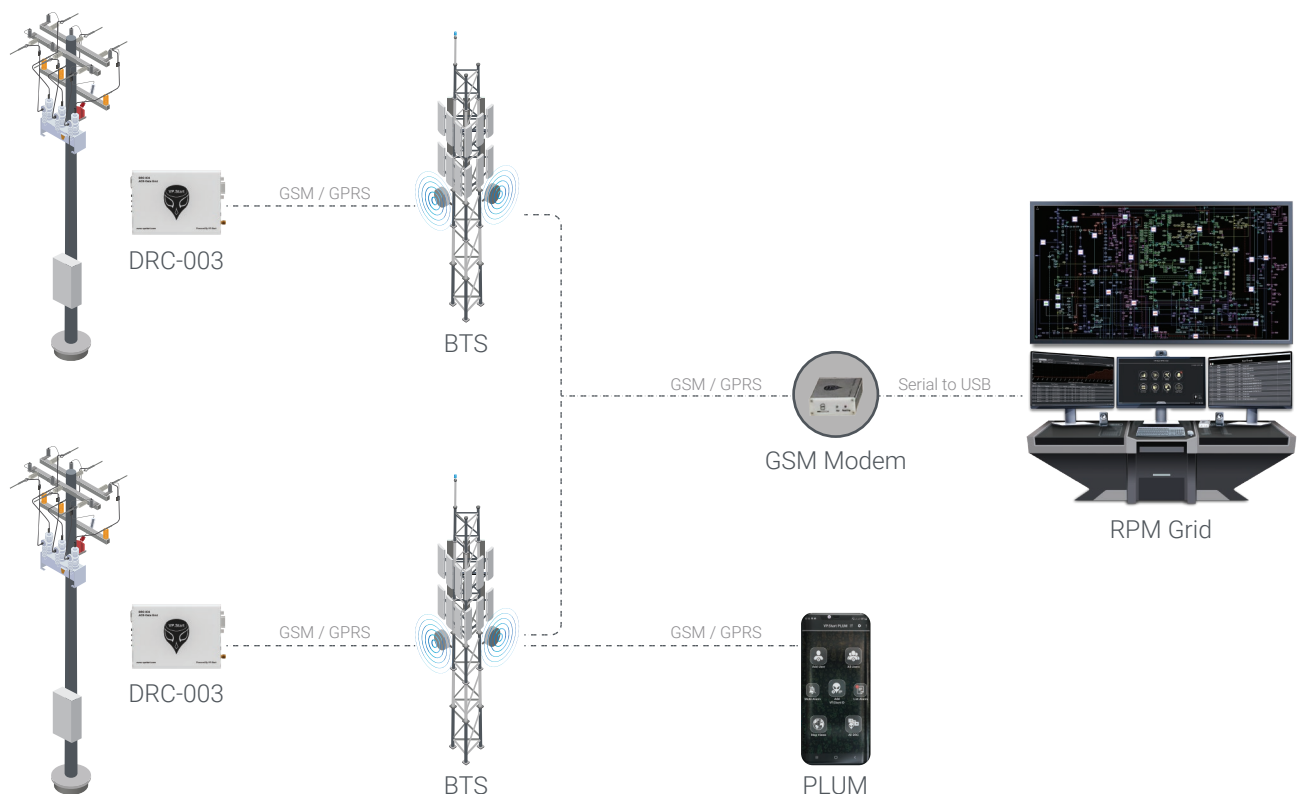
Switchgear OFF Alarm	• Yes
Source Supply OFF Alarm	• Yes
MV Absence	• Yes
Communication Maintenance	• Yes
Door Open Alarm	• Yes
Battery Low	• Yes
MCB Switch Off	• Yes

Call Control

SMS/Call-Control Commands:

Read Measurement [Current, Voltage, Power]	• Yes
Control Switchgear (Trip/Close)	• Yes
Read Switchgear State (Trip/Close)	• Yes

System Architecture





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