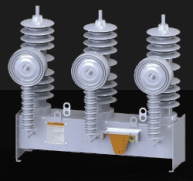
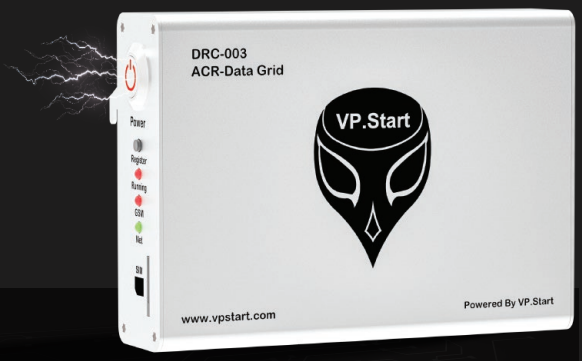
DRC-003

Smart Grid IoT Controller for COOPER Auto Recloser





Eaton V2



UNIQUE

Core Capabilities

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



What Makes the DRC-003 Standout for Managing Distribution Grid Network?



The DRC-003 Smart Grid IoT Controller, developed specifically for COOPER Auto Reclosers (ACRs), brings digital intelligence to medium-voltage distribution networks operating at 22 kV and 35 kV. Instead of replacing existing equipment, VP.Start's technology upgrades the way utilities see, control, understand, and respond to the grid.

The DRC-003 enables operators to remotely control the ACR switchgear, monitor real-time electrical data, and receive critical information for reporting, analysis, and faster decision-making. Through the PLUM App on a smartphone or the RPM Grid System from a control room, electrical operators can monitor and manage critical distribution assets without unnecessary travel to the field.

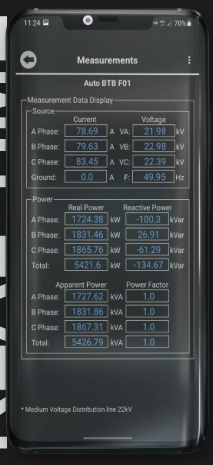


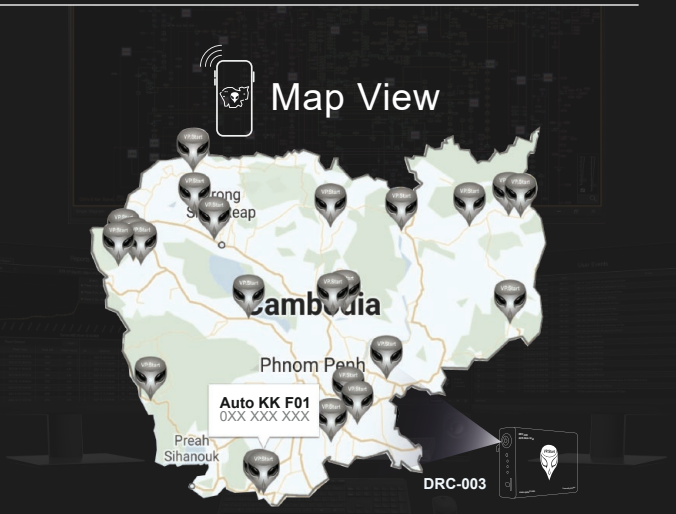
▲ DRC-003 packaging



▲ Installation is quick and easy.

SHOW DATA REAL-TIME





What Are the Key Features of DRC-003?

Real-Time Data Monitoring

Utility operators can obtain real-time grid data from COOPER Auto Reclosers without visiting the site for manual data collection, as required in traditional operations. This real-time data provides valuable insights for distribution grid analysis and informed decision-making, helping utilities improve grid planning, reduce energy losses, and optimize overall grid efficiency.

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.

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 crucial to prevent the potential risks or big problems including MCB Switch Off, Switchgear Maintenance, Door Open Alarm, and Battery Low.

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.

DRC-003 Alarms Notification



Switchgear Off



MV Absence



Communication Maintenance



Door Open Alarm



Battery Low



MCB Switch Off

Measurements

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.

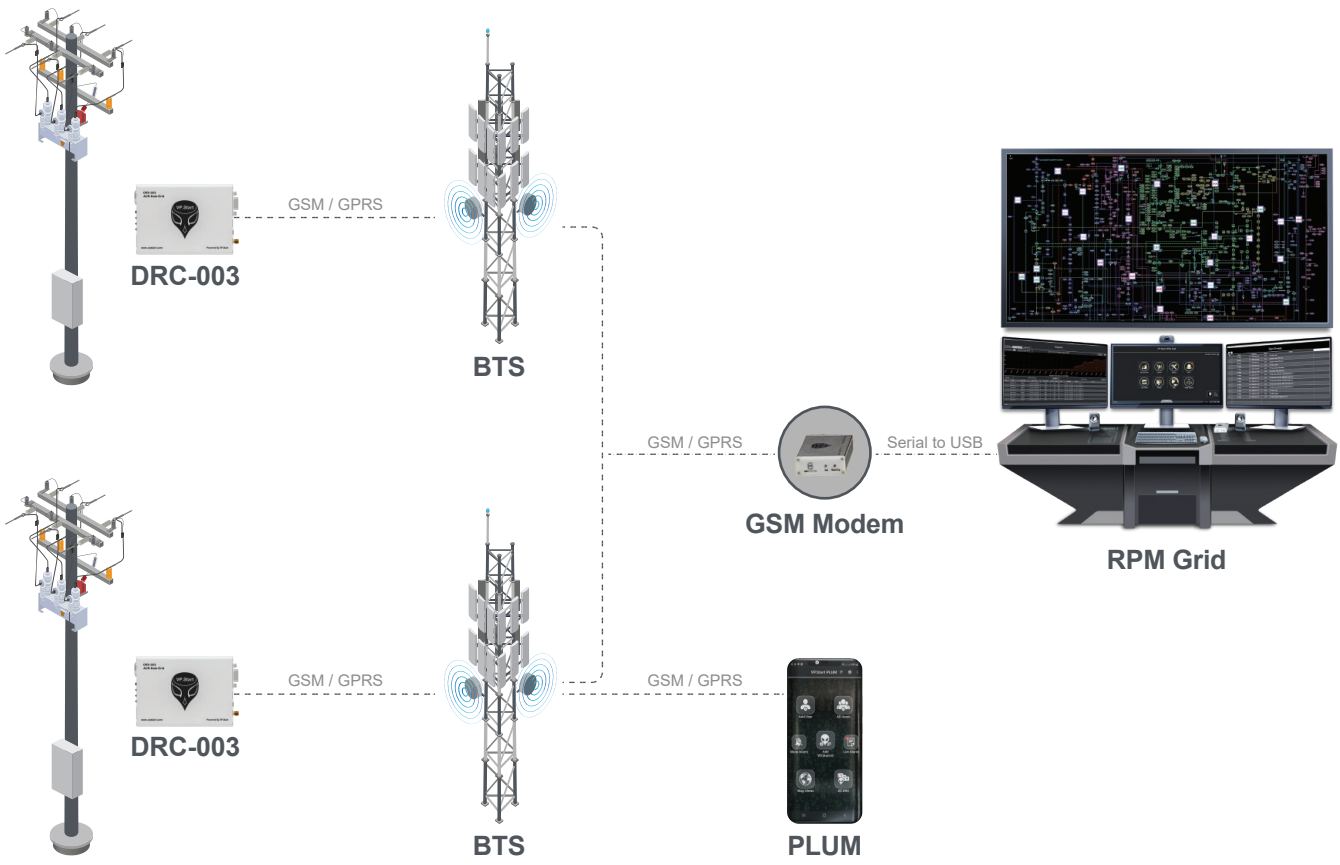
Map

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.

System Architecture





▲ DRC-003 Insert SIM