

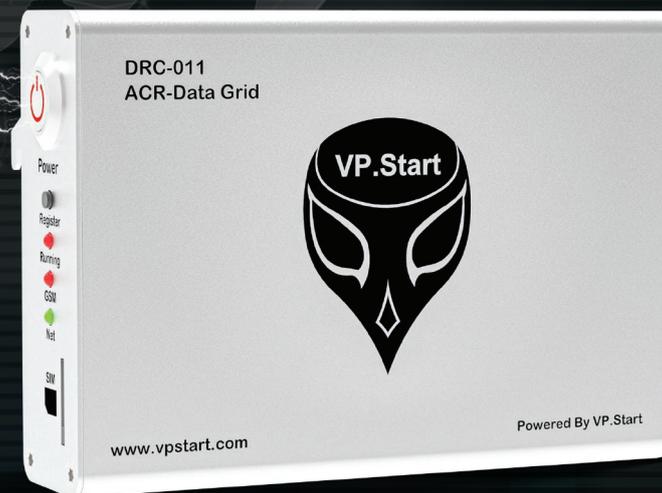


# SMART GRID SOLUTIONS

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

*DRCs*               ...

## DRC-011



VP-DOC-S.CTL-DRC-011.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.



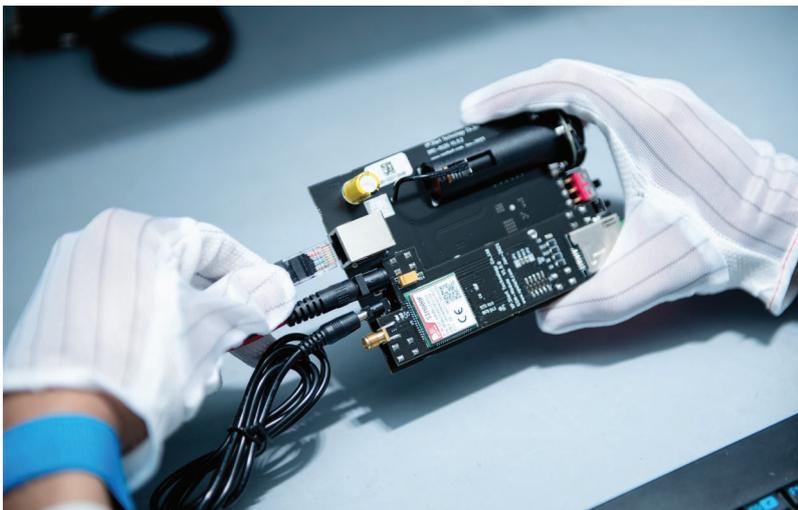
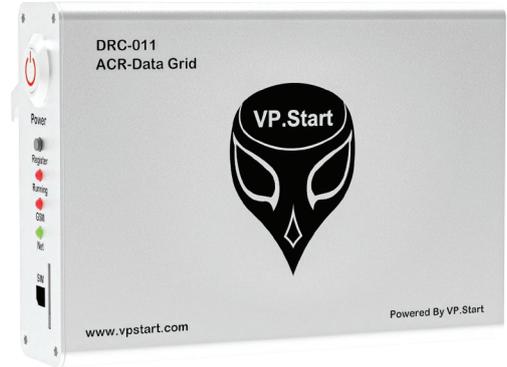
# DRC-011

## Smart Grid IoT Controller for Auto Recloser

The DRC-011 is a next-generation smart grid IoT controller designed to digitally transform existing ENTEC Auto Recloser (ACR) on medium voltage distribution lines.

This innovative solution enables utilities to upgrade conventional electrical grid infrastructure into intelligent, data-driven systems—without costly replacements.

Through this innovation, VP.Start empowers utilities with technology that delivers measurable benefits including reduced operational costs, increased cost-efficiency, and enhanced grid sustainability.



▲ DRC-011 Installation



RPM Grid System



PLUM App



▲ DRC-011 Remote Control for ENTEC



DRC-011 Remote Control for Auto Recloser

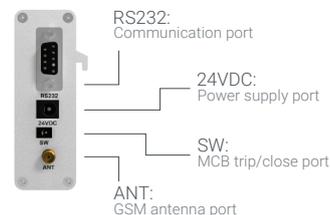
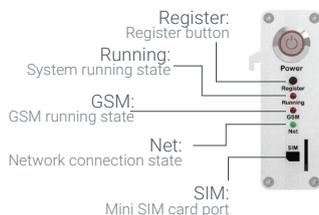
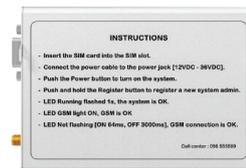


ENTECC

## Key Features

Real-time Data Monitoring:	Utilities now can oversee the entire status of ENTEC Auto Recloser in real-time without the need to manually inspect. With DRC-011, we provide an extensive data grid that is accurate and beneficial for utilities for strengthening their grid to make it more reliable.
Remote Control Capability:	With the DRC-011, utilities do not need to travel long distances to trip/close the switchgear of ENTEC Auto Recloser anymore. They merely use a smartphone or our RPM Grid system to remote control rapidly and efficiently. This approach reduces operational costs and boosts the grid management to be more resilient and reliable, ultimately receiving a transformative return on investment.
Fault Detection :	Faults are the critical challenge for every utility. Getting quick information about those faults are still defects that prolong the outage duration. With the DRC-011, the information of faults is instantly detected. Operators receive the alarm notification of the faults fast and enable them to solve the problems quickly.
Abnormal Detection:	Problems or failures with the ENTEC controllers are not a worry for utilities anymore. VP.Start created the standout abnormal feature to detect any failures or errors inside the ENTEC controller. This innovative feature is crucial to inform utilities to prevent potential risks that may happen with the controllers, reducing maintenance expense and outage time.
Measurements:	Measurement is an essential feature for monitoring and evaluating the power lines. Operators can gain valuable information such as current, voltage source, apparent power, real power, reactive power, and power factor that effectively track the network's performance.
Settings:	The Setting function enables operators to remotely modify the parameters of ENTEC Auto Recloser from RPM Grid or the PLUM App. They don't need to manually adjust the settings of the Auto Recloser on-site any more.
Event Logs:	Event logs automatically recorded all faults on the power lines and created reports for analysis to enhance grid management. It also recorded user activities to ensure the security of system operations.
Map view:	Map allows operators to pinpoint the actual location of DRC-011 easily and efficiently. Operators can easily notify the fault locations with this outstanding function as well.
Single Diagram:	This function assists operators in easily identifying the fault section in Single Diagram, especially identifying the impacted area easily when any interruption happens.

## Product Look and Dimension



# DRC-011 Alarms Notification



Switchgear Off



MV Absence



Communication Maintenance



Door Open



Battery Low



MCB Switch Off

## Product Specification

### Remote Control Unit

Voltage Supply Range	• 12-36 VDC
Operation Frequency Bandwidth	• GSM/GPRS: 900/1800 MHz
Ambient Temperature Range	• 0 to 65 °C
Operating Humidity	• 30 to 95 %
The Remote Control (DRC-011) is Connected	• Yes
Inside the Auto Recloser Cabinet (ENTECC).	• Yes

### Control Functions

Control Switchgear ( Open/Close)	• Yes
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### Setting Functions

Protection Setting (On/Off)	• Yes
Recloser Function (On/Off)	• Yes
Hotline Setting (On/Off)	• Yes
Sensitive Earth Fault Setting (On/Off)	• Yes
Ground Protection (On/Off)	• Yes
Alarm Setting Source Alarm (On/Off)	• Yes

### Monitoring Features

Measurement Current, Voltage, Real Power, Reactive Power, Apparent Power, Power Factor, Frequency, Battery Voltage.	• Yes
Switchgear Position (Open/Close)	• Yes
System SELF CHECK	• Yes
Battery System Status (AC Supply, Charge, Discharge)	• Yes
Controller Location (on Google Map by Using the Tracking Abilities Function)	• Yes

Alarm Notifications

Switchgear Off Alarm	• Yes
Source Supply Off Alarm	• Yes

Reporting & Event Logs

User Event Logs	• Yes
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Remote Control System Software

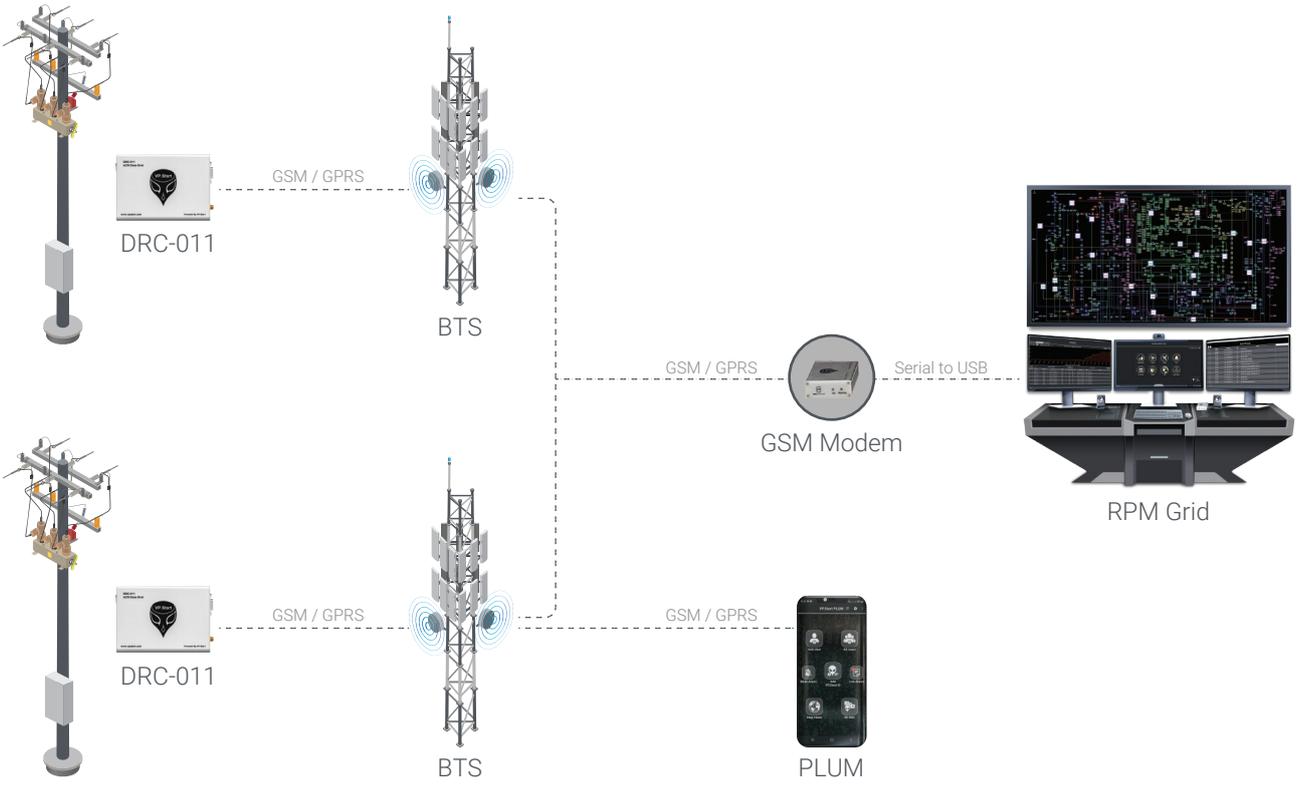
Smartphone App ( Android)	• Yes
RPM Grid Software (PC)	• Yes

Call Control Features

Key Tone Control Features

Read Measurement (Current, Voltage, Power)	• Yes
Control Switchgear (Open/Close)	• Yes
Read Switchgear State (Open/Close)	• Yes

System Architecture





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