



SMART GRID SOLUTIONS

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

DRC5

DRC-006



VP-DOC-S.CTL-DRC-006.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-006

Smart Grid IoT Controller for Remote Terminal Units (RTUs) T200i

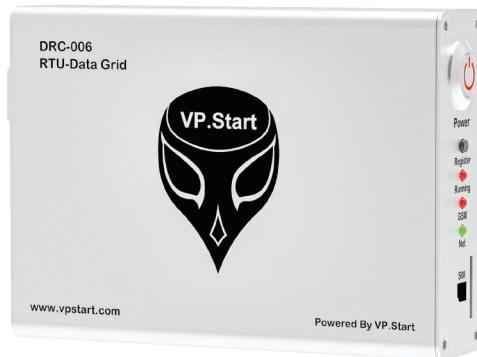
Introducing the DRC-006, a revolutionary smart grid IoT device designed to transform existing Remote Terminal Units (RTUs) used in medium voltage underground distribution lines into advanced smart devices. The DRC-006 stands out as a groundbreaking solution that collects extensive real-time data from RTUs, enabling electrical grid operators to gain comprehensive insights into their operations. This data not only enhances the efficiency and reliability of RTUs but also empowers operators to make informed decisions.

What truly sets the DRC-006 apart is its approach to modernization. Rather than requiring a complete replacement of existing RTUs. This innovative approach not only preserves existing infrastructure but also significantly lowers modernization costs.

The DRC-006 is more than just a smart grid device; it is a sophisticated solution that enhances the resilience and reliability of power grid management while providing significant cost efficiencies for utility companies.



▲ DRC-006 Installation



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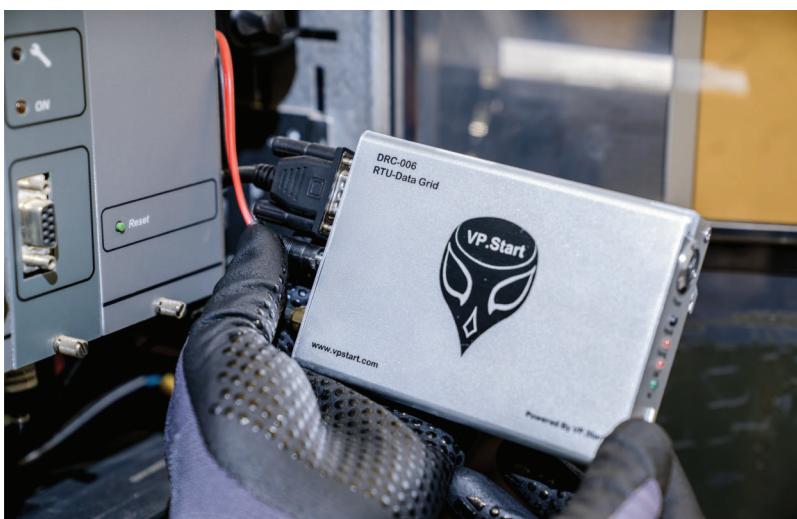
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RPM Grid System



PLUM App



▲ DRC-006 Remote Control for Terminal Unit (RTU) T200i



DRC-006
Schneider (RTU T200i)



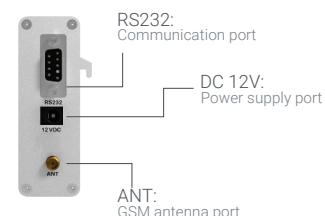
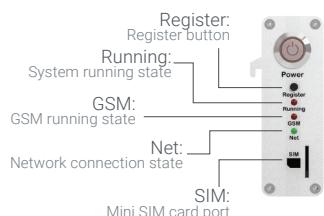
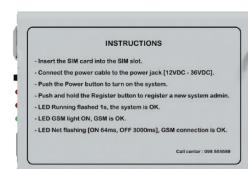
RTU

Key Features

Remote Control Capability:	One of the key features of the DRC-006 is its ability to provide seamless remote control, allowing operators to open or close the switchgear of the RTUs instantly. This cutting-edge device is capable of remote up to 4 units of switchgear through RPM Grid, or the PLUM App.
Collect Real-time Data from RTUs:	The DRC-006 collects real-time data from the RTUs, enabling operators to monitor the overall performance and ensure smooth operation. This innovative feature is crucial, as it allows operators to leverage data for better decision-making, ensuring seamless and reliable RTU operations.
RTU Event Logs:	RTU Event Logs is the crucial function to keep various information from faults and operators' activities. This can be a vital document for grid management analysis, making the power grid management more resilient and expandable.
Quick Fault Detection:	The DRC-006 enhances operational safety by transmitting information about faults directly to the RPM Grid or the PLUM app. The alarms clearly indicate issues like switchgear off, source supply off, feeder ground faults, feeder phase faults, and open doors. This capability makes the DRC-006 a trusted partner in mitigating potential risks, ultimately leading to reduced outages and leakages.
Map View:	The Map function is another easy tool for operators to view the location of the RTUs using Google Maps. This advanced feature also helps operators quickly identify fault locations.
Single Diagram:	Operators can now view the DRC-006's location on a simplified schematic layout. This feature enables electrical grid operators to quickly and accurately pinpoint fault locations.



Product Look and Dimension



DRC-006 Alarms Notification



Switchgear Off



MV Absence



Phase Fault



Ground Fault



MCB Trip



Door Open

Product Specification

Remote Control Unit

Voltage Supply Range	<ul style="list-style-type: none">12 - 24 Vdc
Remote Control Unit Power Supply for Controller Operating (GPRS/Call Control) for Auto Recloser ADVC Schneider 22/35kV	<ul style="list-style-type: none">Solar Cell, 20W
Frequency Bandwidth Ambient	<ul style="list-style-type: none">GSM/Internet/Call Control 900/1800 MHz
Temperature Range	<ul style="list-style-type: none">0 to 45°C/32 to 113°F
Humidity	<ul style="list-style-type: none">≥ 95%

Remote Control Function

Trip or Close Switchgear	<ul style="list-style-type: none">Yes
Check Signal (GSM), Power Supply Status	<ul style="list-style-type: none">Yes
View User Event Logs	<ul style="list-style-type: none">Yes
Alarm Notifications: Door Open, Power Supply Loss, Source OFF, Trip/Close, Switchgear OFF etc.	<ul style="list-style-type: none">Yes
Track Controller & LBS Location Via Google Maps (Tracking Abilities Function)	<ul style="list-style-type: none">Yes
View: Recloser COOPER Event Logs	<ul style="list-style-type: none">Yes

Remote Control System Software

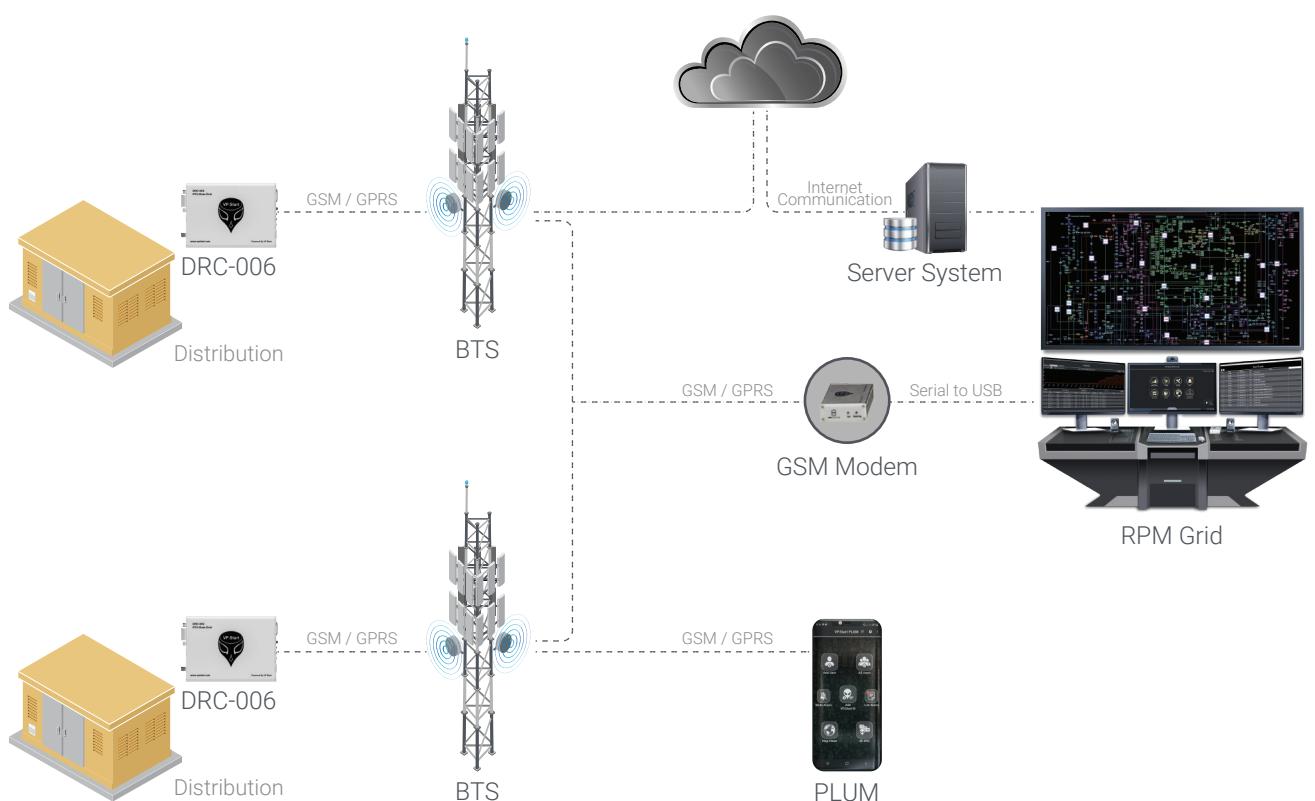
PLUM App for smartphone(Android)	<ul style="list-style-type: none">Yes
RPM-Grid Software for PC	<ul style="list-style-type: none">Yes

Call Control

SMS/Call-Control Commands:	
Read Switchgear State (Trip/Close)	<ul style="list-style-type: none">Yes
Control Switchgear (Trip/Close)	<ul style="list-style-type: none">Yes



System Architecture



VP.Start

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