SMART GRID
SOLUTIONS

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

DRCs ...

DRC-012G

DRC-012G
MV Meter

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Welcome to SIMA Annex!
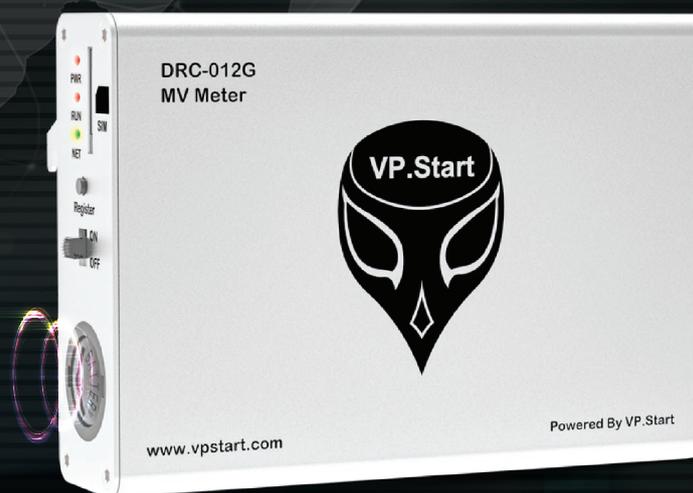
Creating a one-stop eco-sustainability system to transform the entire conventional grids into digital smart grid systems that streamline electrical grid management, optimize efficiency, reduce operational costs, and increase cost efficiency, making the grid more reliable and sustainable.

DRC-012G

Smart Grid IoT Controller for Remote Monitoring for EDMI Energy Meter

The DRC-012G are engineered to transform existing energy meters, specifically for the EDMI model, into advanced digital smart meters.

This cutting-edge solution provides utilities with real-time data monitoring, abnormal detection, and power quality enhancement, driving energy efficiency and grid reliability.

With advanced features such as real-time alarms, secure data encryption, and comprehensive tracking capabilities, the DRC-012G empowers operators to make informed decisions and optimize resource management across distributed energy grids.
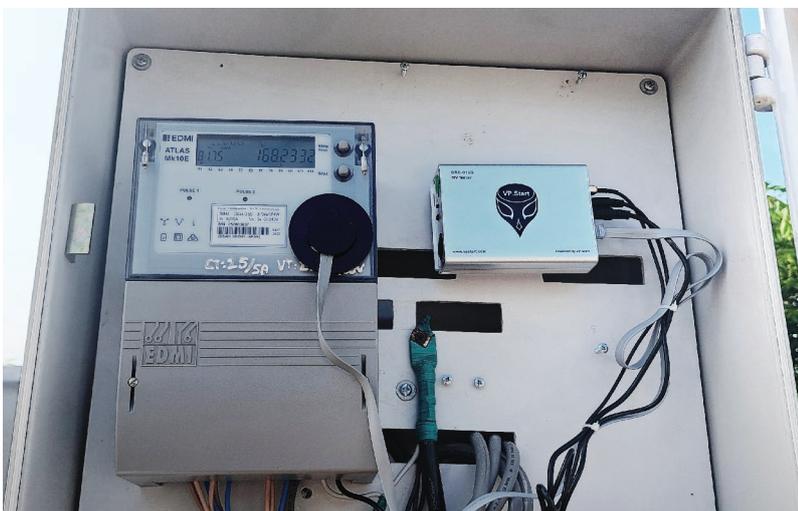

▲ DRC-012G Installation

DRS System

PLUM App

▲ DRC-012G Remote Monitoring for EDMI Energy Meter

DRC-012G
MV/LV Meter

EDMI

Key Features

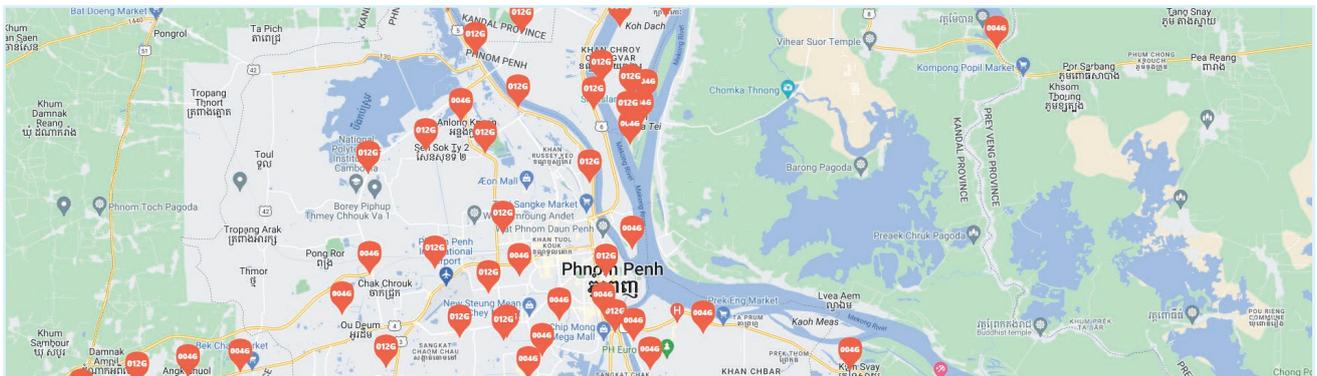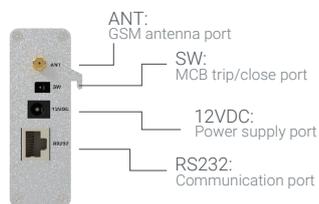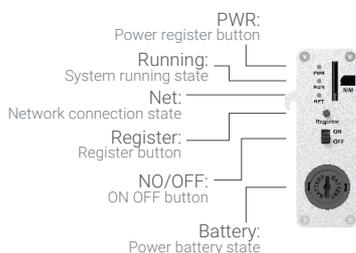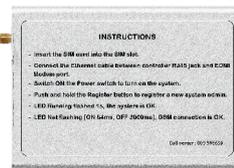|	
Real-Time Data Monitoring:	The DRC-012G allows operators to monitor power, current, voltage, power factor, frequency, active power, and reactive power of the EDMI meter. Additionally, it offers the ability to generate billing reports, eliminating the need for manual on-site. This smart feature reduces operational costs and enhances the cost-efficiency of utilities.
Alarm & Notification:	The DRC-012G sends alarms & notifications in the event of a source supply off, loss of phase, low current warning, door open, and during maintenance activities. This feature is essential not only for operational purposes but also for safeguarding the meters against potential harm.
Data History & Reporting:	This exceptional feature stores diverse reports for analysis, enabling operators to make prompt decisions to enhance network management effectively.
Map:	The Map function pinpoints the precise location of DRC-012G, facilitating quick identification during fault occurrences and enhancing the efficiency and convenience of network management.

Product Look and Dimension

PWR:
Power register button

Running:
System running state

Net:
Network connection state

Register:
Register button

NO/OFF:
ON OFF button

Battery:
Power battery state

ANT:
GSM antenna port

SW:
MCB trip/close port

12VDC:
Power supply port

RS232:
Communication port

DRC-012G Alarms Notification

| Loss of Phase | Door Open | Source Absence | Communication Maintenance | Low Current Warning |

Product Specification

Remote Monitoring Unit

Country of Origin	• Cambodia
Manufacturer's Name Technology	• VP.Start Technology
Manufacture's Reference	• DRC-012G
Remote Control for MV Meter (EDMI)	• Yes
Remote Control Via Smartphone or PC for MV Meter (EDMI) can be Configured to DRS Software.	• Yes
Voltage Supply Range	• 12 to 14 VDC
Operating Frequency Bandwidth	• GSM/GPRS: 900/1800 MHz
Ambient Temperature Range	• -10 to 70 $^{\circ}$C
Operating Humidity	• 30 to 95 %
Operation Temperature	• 0 to 65 $^{\circ}$C
Communication Interface	• Serial (RS232), Optical Read Probe (IR-Reader).
Status LEDs	• System Running: Blinking 1s. • System Power: Red LED is ON. • System Network: Green LED Flashing.
Dimensions	• H= 88mm x L=122mm x W=30mm

App & Software Tools Interface

Supporting PC Application	• Yes
Mobile Application	• Yes

Energy Monitoring Features

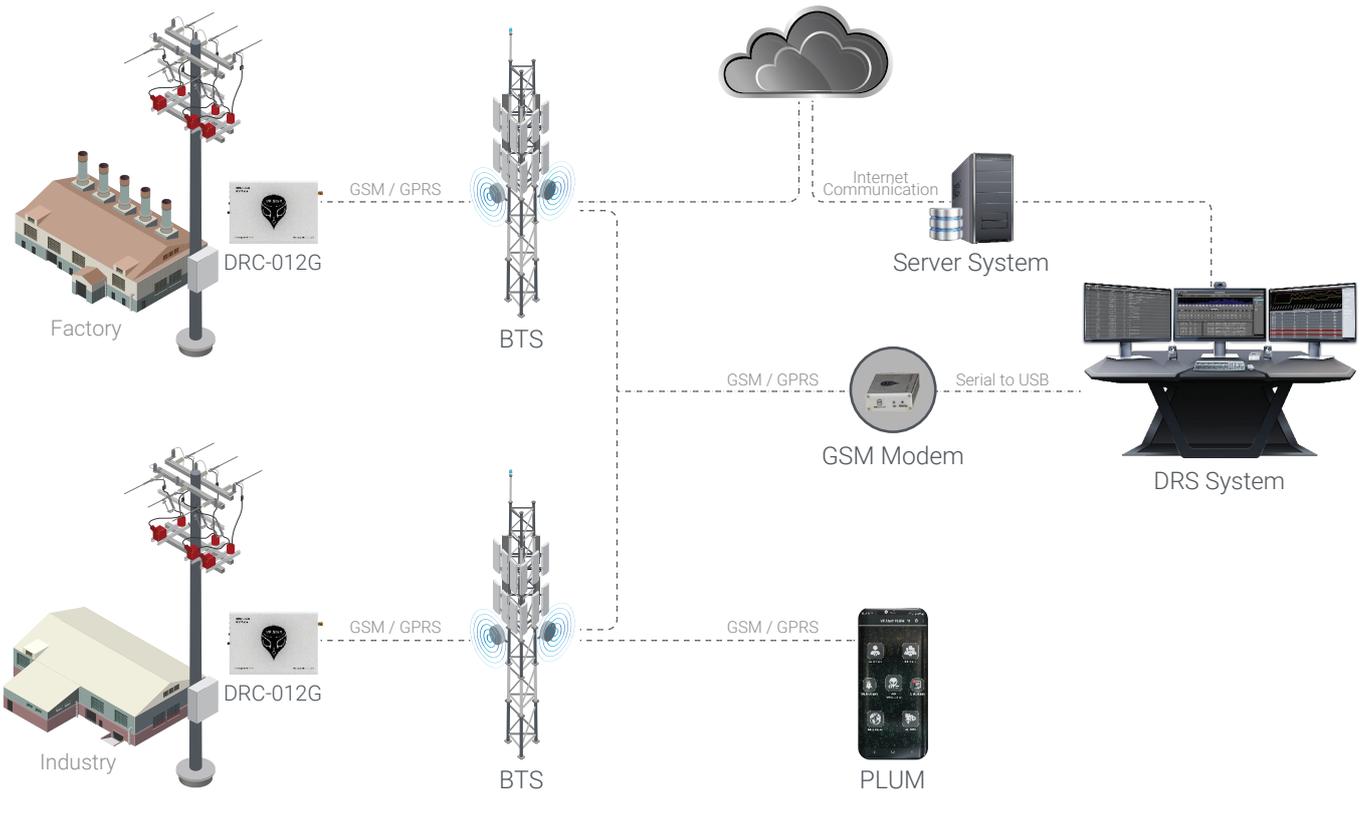|	
Active Energy Import	• Yes
Active Energy Export	• Yes
Reactive Energy Import	• Yes
Reactive Energy Export	• Yes
Data Energy TOU Rating	• Optional (DRS Available)

Meter Serial Number	• Yes
Meter Date & Time	• Yes

Alarm Notifications

Source Supply OFF Alarm (On/Off)	• Yes
Loss of Phase Alarm (On/Off)	• Yes
Low Current Warning Alarm	• Yes
Door Open Alarm	• 0.01 to 100 A
Field Side Connection Module	• Position Mounting: The Remote Control (DRC-012G) is Connected Inside the MV Metering Cabinet (EDMI).

Physical Specifications

Mounting Position	• The Remote Control (DRC-012G) is Connected Inside the MV Metering Cabinet (EDMI).
Dimensions	• H=88mm x L=122mm x W=30mm
Weight	• 200mg

System Architecture

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