



SMART GRID SOLUTIONS

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

DRCs              ...

DRC-004G



VP-DOC-S.CTL-DRC-004G.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-004G

Smart Grid IoT Controller for Remote Monitoring for Landis+Gyr Energy Meter

The DRC-004G is engineered to transform conventional energy meters (specifically Landis+Gyr models) into advanced digital smart meters with rapid project delivery.

This innovative solution empowers utilities with real-time data monitoring, anomaly detection, and power quality optimization, driving operational efficiency and grid reliability.

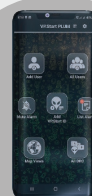
With our user-friendly management system, Distribution Remote System (DRS), operators can solve meter-related problems efficiently from the control room, eliminating the need for physical interventions.



▲ DRC-004G Installation



DRS System



PLUM App



▲ DRC-004G Remote Monitoring for Landis+Gyr Energy Meter



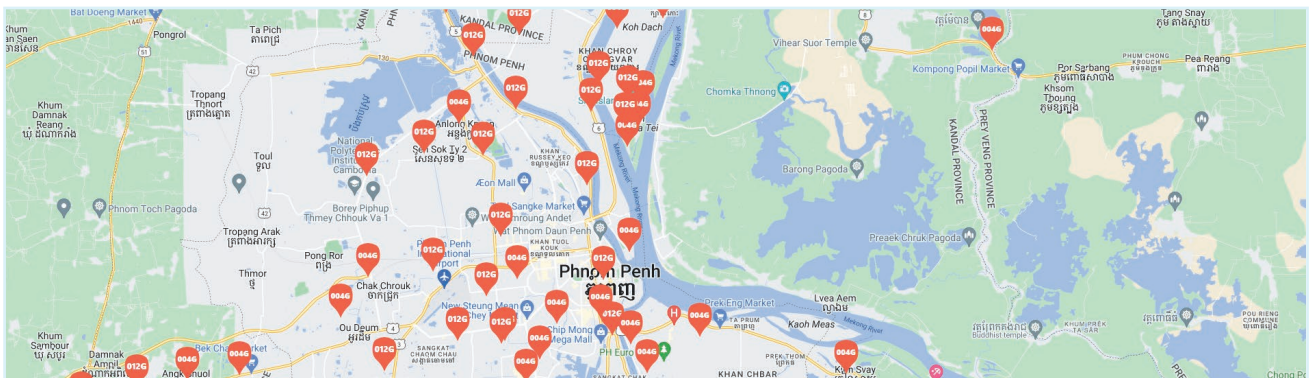
DRC-004G
MV/LV Meter



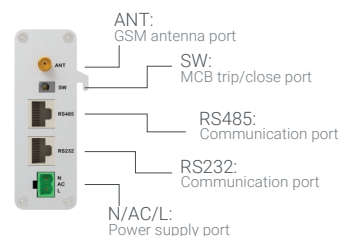
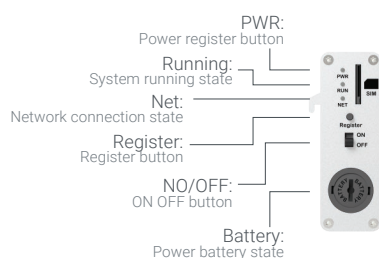
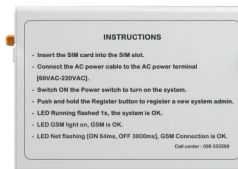
Landis+Gyr

Key Features

Real-Time Data Monitoring:	The DRC-004G enables utilities to monitor real-time data from energy meters, including phase balance, voltage drops, phase loss, peak consumption per consumer, and other critical metrics—all accessible in the palm of their hands. This capability is key to enhancing power quality, reducing energy losses, and improving energy efficiency. Moreover, these devices can generate billing reports automatically, eliminating the need for manual on-site processing by operators.
Alarm & Notification:	The DRC-004G sends alarms & notifications in the event of a source supply off, loss of phase, low current warning, door open, and communication lost. This feature is essential not only for operational purposes but also for safeguarding the meters against potential harm.
Abnormal Detection:	What if the energy meters are error, CT or VT broken? What impact will utilities face if those issues arise without receiving quick information? With the DRC-004G those critical issues are completely resolved. Utilities do not need to worry about any failures that occur with energy meters anymore. Having DRC-004 is like having the bodyguard to protect and alert everything happening with your energy meters, leading to making your energy management more efficient and reliable.
Data History & Reporting:	This outstanding feature saved various reports in every event that occurred for analysis and allowed the operators to create a prompt decision making to improve the network management.
Map:	Map function pinpoints the exact location of DRC-004G to swiftly identify in the event of faults, enhancing the efficiency and convenience of network management.



Product Look and Dimension



DRC-004G Alarms Notification



Loss of Phase



Door Open



Source Absence



Communication
Maintenance



Low Current
Warning

Product Specification

Remote Control Unit

Country of Origin	<ul style="list-style-type: none">Cambodia
Manufacturer's Name	<ul style="list-style-type: none">VP.Start Technology
Model	<ul style="list-style-type: none">DRC-004G
Remote Control Via Smartphone or PC for Meter (Landis +Gyr) can be Configured to Distribution Remote Control System.	<ul style="list-style-type: none">Yes
Voltage Supply Range	<ul style="list-style-type: none">50 to 230 VAC
Operating Temperature	<ul style="list-style-type: none">0 to 65 °C
Ambient Temperature Range	<ul style="list-style-type: none">-10 to +70 °C
Operating Humidity	<ul style="list-style-type: none">30 to 95 %C

Communication Interface

Serial (.c1) RS232	<ul style="list-style-type: none">Yes
Optical Len Port	<ul style="list-style-type: none">Yes
GSM Communication	<ul style="list-style-type: none">Yes
GPRS Communication	<ul style="list-style-type: none">Yes

Remote Control Functions & Features

Controller Status Indication Via LEDs

System Running	<ul style="list-style-type: none">Blinking 1s
System Power	<ul style="list-style-type: none">Red LED is ON
System Network	<ul style="list-style-type: none">Green LED Flashing

Energy Monitoring Features

Active Energy Import	<ul style="list-style-type: none">Yes
Active Energy Export	<ul style="list-style-type: none">Yes
Reactive Energy Import	<ul style="list-style-type: none">Yes
Reactive Energy Export	<ul style="list-style-type: none">Yes
Data Energy TOU Rating	<ul style="list-style-type: none">Optional (DRS Available)

Meter Serial Number	• Yes
Meter Date & Time	• Yes

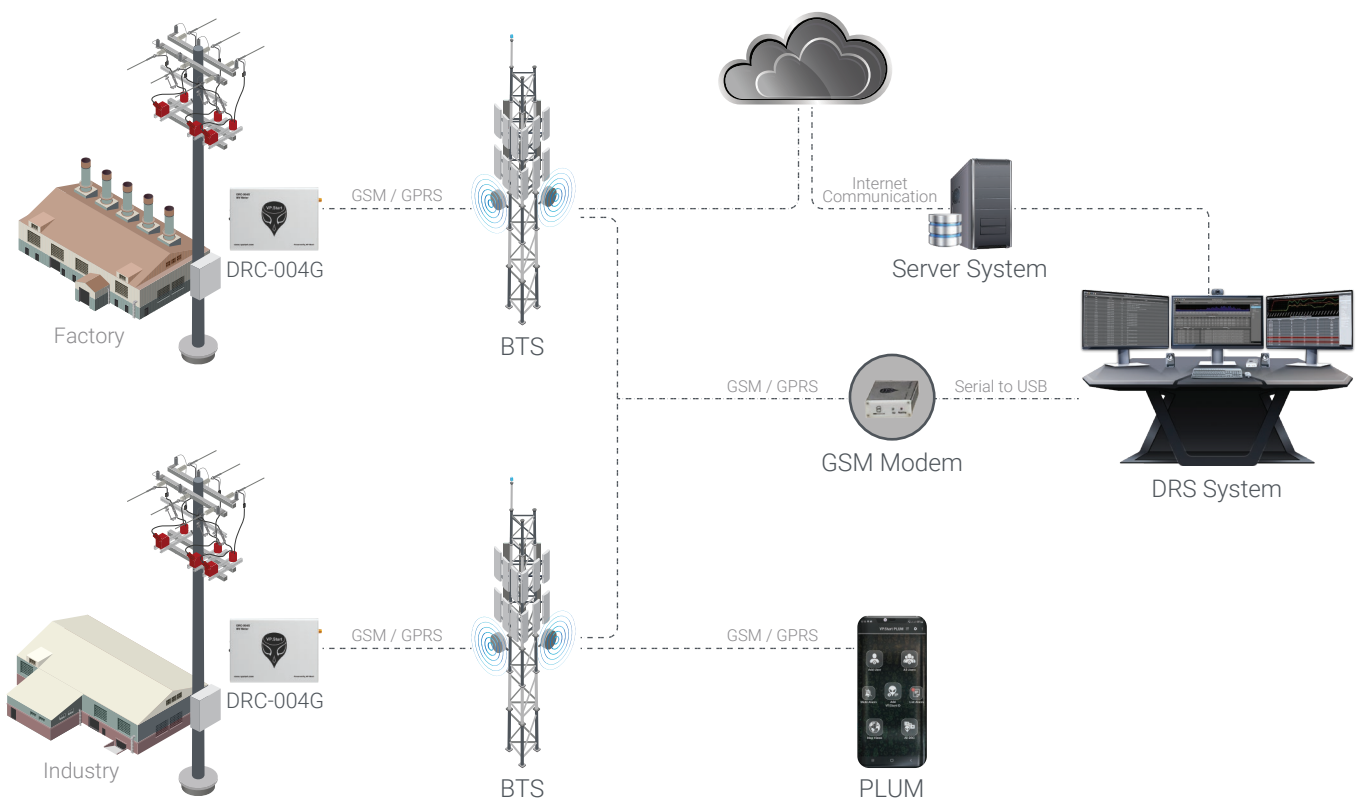
Alarm Notifications

Source Supply OFF Alarm (On/Off)	• Yes
Loss of Phase Alarm (On/Off)	• Yes
Current Warning Alarm (On/Off)	• Yes
Current Warning Value	• 0.01 to 100 A
Meter Interface Connection	• .c1/Optical Len
Data Upload/Refresh	• 15, 30, 60 Optional (DRS Available)
Internet Hosting Address	• Optional (DRS Available)

Physical Specifications

Mounting Position	• The Remote Control (DRC-004G) is Connected Inside the MV Metering Cabinet (Landis +Gyr).
Dimensions	• H=88mm x L=122mm x W=30mm
Weight	• 200mg

System Architecture





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