



# SMART GRID MANAGEMENT SYSTEMS

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

**DRCs**              ...



## LMS

(Low Voltage Distribution Management System)





# LMS

## Low Voltage Distribution Management System

The LMS is another groundbreaking system we designed to modernize the Low Voltage Distribution Board (LVDB), transitioning from traditional on-site data inspection to a digitally operated system.

This robust system specializes in tracking overcurrent and overtemperature conditions in the LVDB and transformers, allowing electrical operators to receive instant information about overheating in the LVDB room, thereby avoiding potential fire hazards and other risks.

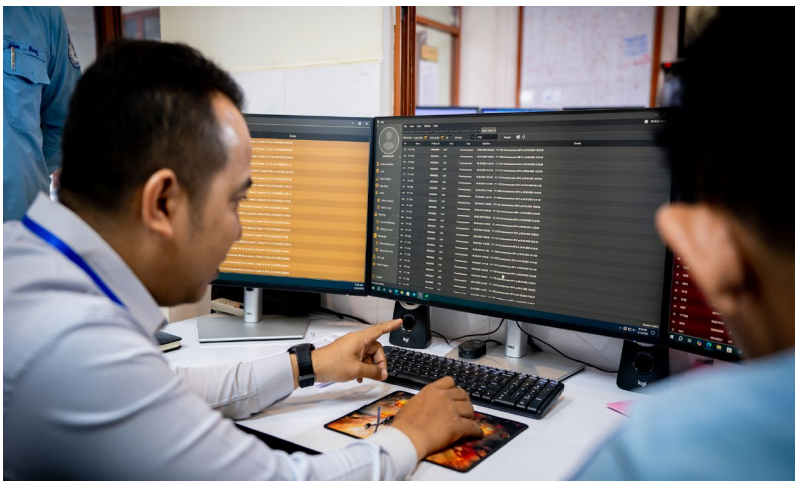
With our cutting-edge DRC-015, which integrates with the LVDB and transformers, all information from the LVDB room will seamlessly transmit to the LMS. Imagine a scenario where electrical operators are stationed in a control room, effortlessly managing the LVDB. With just a few clicks, they can access the status of the LVDB, receiving instant alarm notifications if any abnormalities or high temperatures arise.

This is the transformative power of the LMS!

It simplifies the complexities of LVDB management, making the process not only more reliable but also sustainable.



▲ Ensures stable distribution of low-voltage electricity.



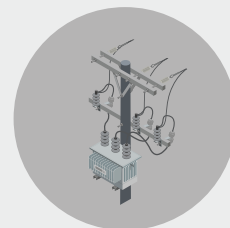
▲ Station Monitoring



LMS



Distribution



PMT

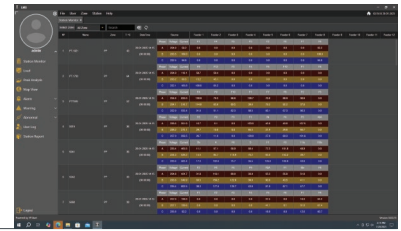


P.T.T

## Key Features

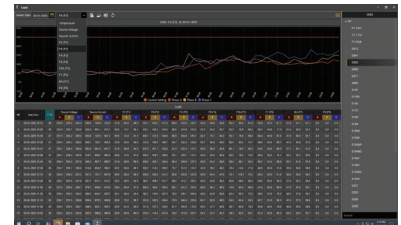
### Station Monitor:

Provides detailed status information on LVDB, including zone, voltage, feeder currents, and other critical metrics.



### Load Monitoring:

Tracks LVDB load curves, including meter voltage, meter current, and feeder current.



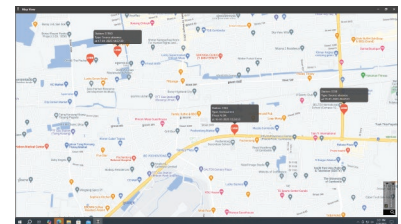
### Peak Analysis:

Offers detailed peak data for each feeder in the LVDB room, enabling risk prevention and operational safety.



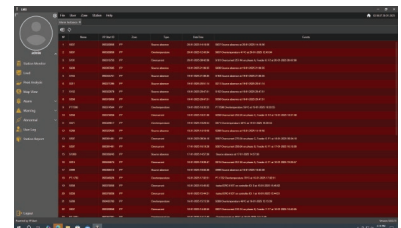
### MAP:

Integrates with Google Maps to visualize the location of DRC-015 controllers for intuitive monitoring.



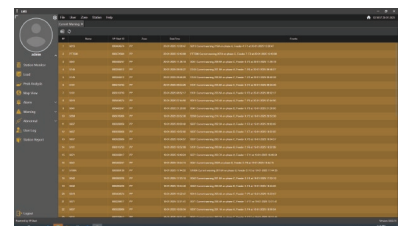
### Alarm:

Alerts operators to incidents like Over Current, Over Temperature, or Source Absence, while logging events for future reference.



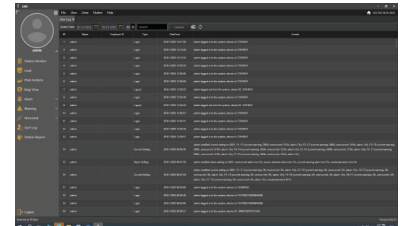
### Current Warning:

Delivers real-time notifications for current warnings via the LMS system, ensuring prompt risk mitigation.



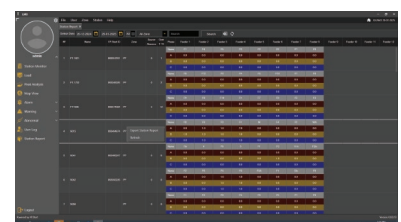
### Report & Event Log:

Allows operators to download and review event logs for analysis, maintenance, and improvement.



### Station Reprot:

Allows operators to export terminal reports and monitor users for analysis, maintenance and improvement.



# Product Specification

## Remote Control Unit

Software Provided	<ul style="list-style-type: none"><li>• Yes</li></ul>
Supported Operating System	<ul style="list-style-type: none"><li>• MS Window 10 or Later</li></ul>
Software Setup and Training	<ul style="list-style-type: none"><li>• Yes</li></ul>
Software License Installation Tools	<ul style="list-style-type: none"><li>• Yes</li></ul>
Exportable Data Reporting	<ul style="list-style-type: none"><li>• Yes</li></ul>
Communication Data Encryption and Decryption	<ul style="list-style-type: none"><li>• MS Window 7 or Later</li></ul>
Communication Support	<ul style="list-style-type: none"><li>• Yes</li></ul>
Security Login with Username and Password	<ul style="list-style-type: none"><li>• Yes</li></ul>
Alarm and Notification System	<ul style="list-style-type: none"><li>• Yes</li></ul>
Data Graphical Plotting	<ul style="list-style-type: none"><li>• Yes</li></ul>
Software Setting	<ul style="list-style-type: none"><li>• Yes</li></ul>
Viewing, Sorting, Listing to Data History	<ul style="list-style-type: none"><li>• Yes</li></ul>
Alarm & Notification Indication System	<ul style="list-style-type: none"><li>• The System will Indicate Alarm &amp; Notification by Blinking, Highlight, Sound Alert and Window Information Popup.</li></ul>

## Monitoring Features

Data Monitoring & Auto Refresh	<ul style="list-style-type: none"><li>• Yes</li></ul>
Power Source Voltage	<ul style="list-style-type: none"><li>• Power Source Voltage (Reading from Landis +Gyr, EDMl)</li></ul>
Power Source Current	<ul style="list-style-type: none"><li>• Power Source Current (Reading from Landis +Gyr, EDMl)</li></ul>
Station-Room/Transformer-Body Temperature	<ul style="list-style-type: none"><li>• Yes</li></ul>
Monitor Load Current Measurement	<ul style="list-style-type: none"><li>• Support Up to 12 Feeders</li></ul>
Monitor Load Over Limited Current	<ul style="list-style-type: none"><li>• Yes</li></ul>
Monitor Load Current Warning	<ul style="list-style-type: none"><li>• Yes</li></ul>

## Map & Devices Grid View

View all Station/LVDB on Grid View & Map	<ul style="list-style-type: none"><li>• Yes</li></ul>
Alarm/Notification Indication on Grid View & Map	<ul style="list-style-type: none"><li>• Yes</li></ul>
Power Source Data and LVDB Data Detail Grid View	<ul style="list-style-type: none"><li>• Yes</li></ul>
Double Click on Station to Jump into Station Monitoring Window	<ul style="list-style-type: none"><li>• Yes</li></ul>
Map Zoom In/Out Support	<ul style="list-style-type: none"><li>• Yes</li></ul>

## Alarm & Notifications

Over Limited Current Alarm	• Yes
Source Absence Alarm	• Yes
Over Temperature Detection & Alarm	• Yes
Alarm Indication on Map Window	• Blinking Icon
Alarm Indication on Grid View Window	• Blinking Icon
Alarm Indication on Alarm List Window	• Yes
Alarm Popup Window	• System Alarm Popup with Alarm Detail

## Graphical & Analysis Tools

Power Source and LVDB Load Selectable Data Plotting	• Yes
Load Data Balancing Analysis	• Yes
(Daily/Weekly/Monthly) Load Limited Current Analysis Tools and Exportable	• Yes • Blinking Icon
Exportable Data Plotting & Graphic to PDF and Excel File	• Blinking Icon • Yes

## Reporting & Event Log

User Operations Event Log	• Yes
Load Over Limited Current Event Log	• Yes
Source Absence Alarms Event Log	• Yes
Source and LVDB Online Data History	• Yes
Event Log Selectable by Station/LVDB	• Yes
Event Log Exportable	• Yes

## Setting Functions

Station Name	• Yes
Feeders Name	• Yes
Source Absence Alarm (On/Off)	• Yes
Over Limited Current Alarm (On/Off)	• 1 - 380 Amp
Over Limited Current Alarm (Value)	• Yes
Current Warning Notification (On/Off)	• 1 - 380 Amp
Current Warning Value	• 15, 30, 60 min
Data Upload/Refresh	• 15, 30, 60 min
Station-Room/Transformer-Body Overheat Alarm	• 35 - 100 °C



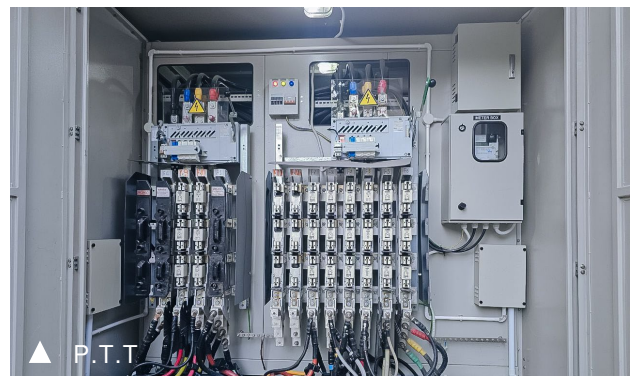
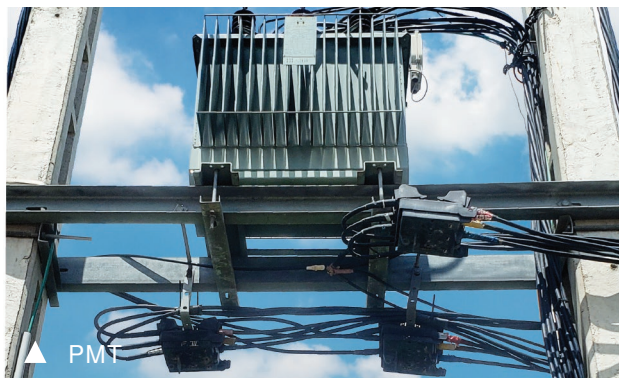
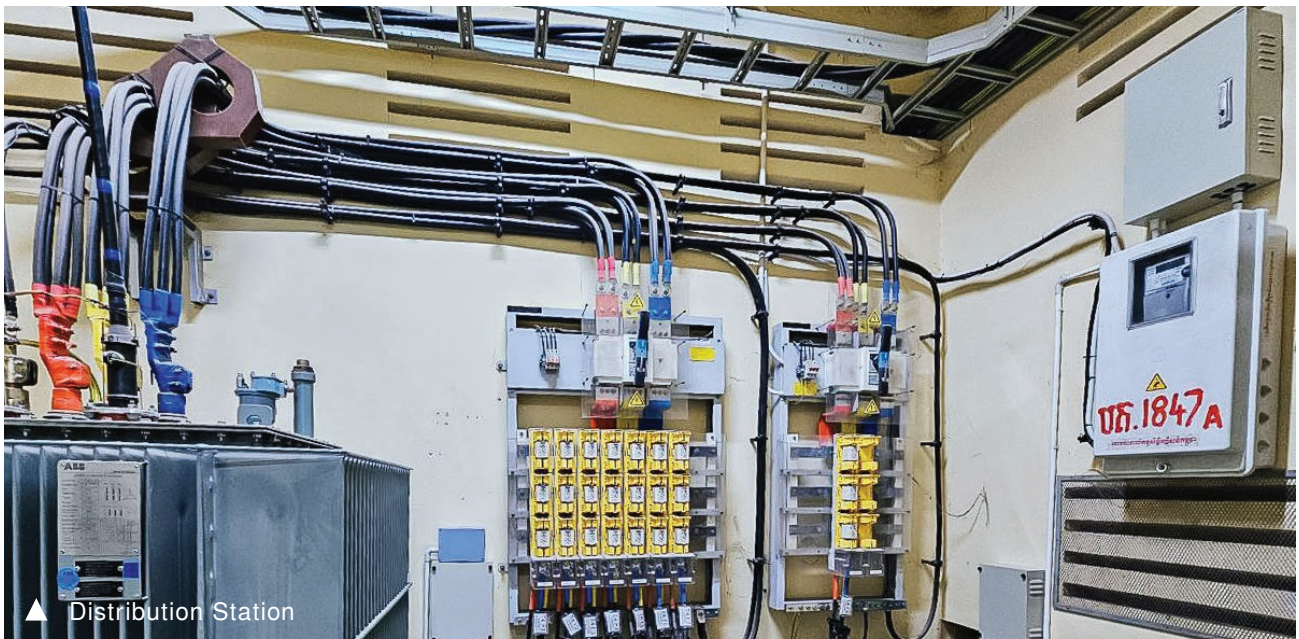


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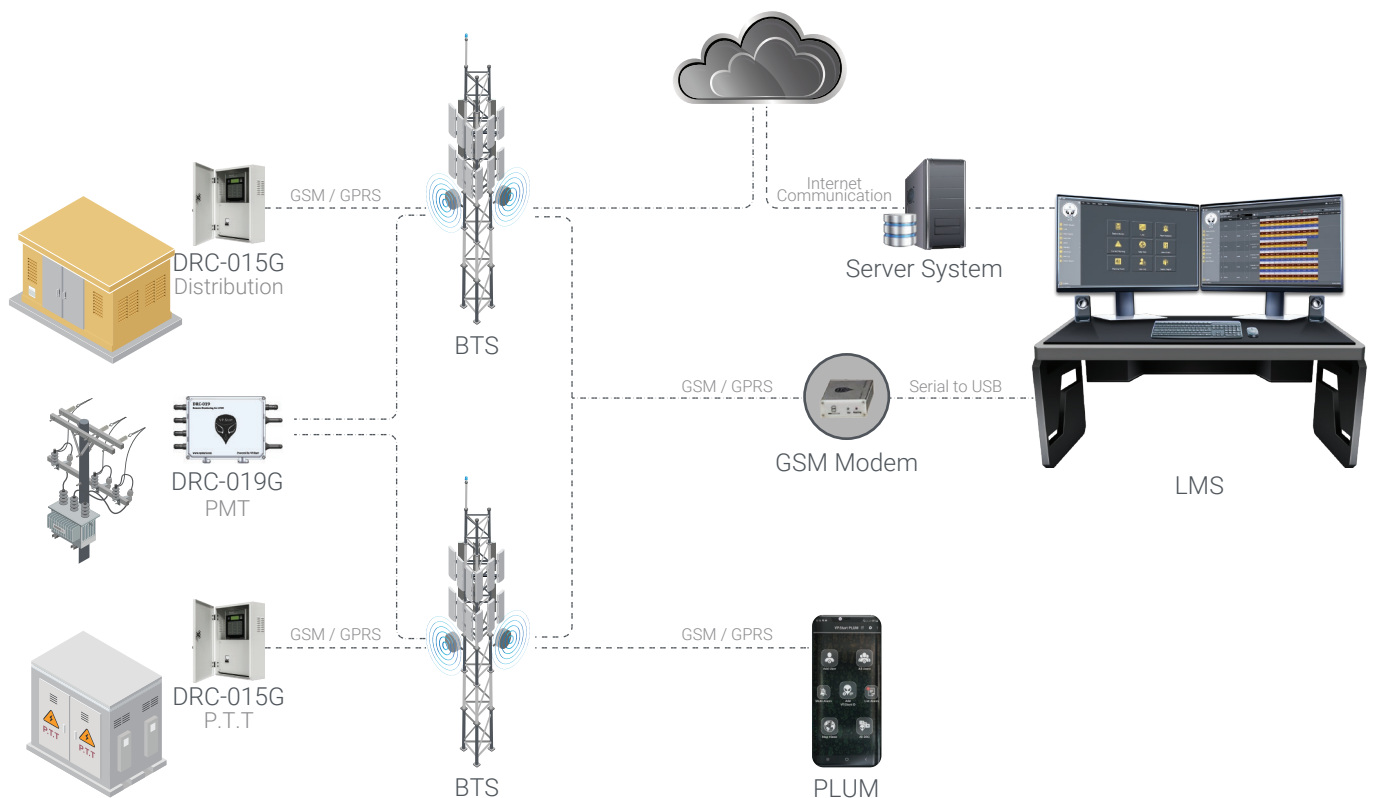


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## System Architecture








DRCs Installed

20,000+



Smart Grid Systems Installed

4



▲ Direct control from the control room over the Low Voltage Distribution Management System