DRC-015G

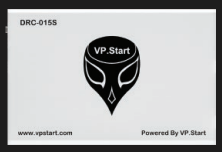
Smart Grid IoT Controller for Low Voltage Distribution Board



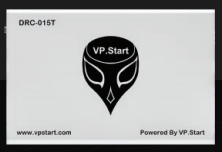
Transformer



LVDB



DRC-015S



DRC-015T



Core Capabilities

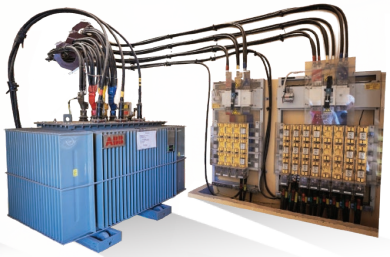
Remotely Monitor Real-Time Data from LVDB

Receive Instant Alerts When Anomalies Occur in LVDB

Monitor Transformer Loading and Temperature Conditions in Real Time

Inspect and Track LVDB and Transformers Anytime

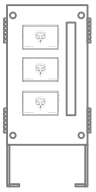


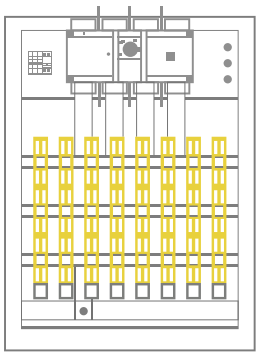


What Challenges Can DRC-015 Address in Distribution Grid Network?



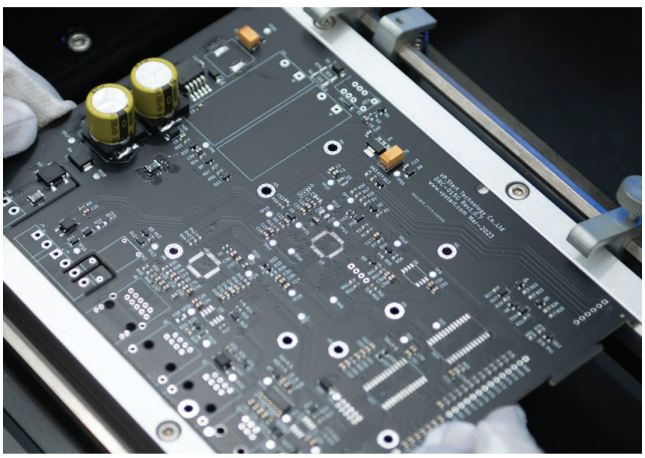
DRC-015T





The DRC-015 is a state-of-the-art smart grid IoT device designed to monitor, track, and modernize existing Low Voltage Distribution Board (LVDB) infrastructure.

This groundbreaking solution streamlines the operation of LVDB and transformers, provides real-time load monitoring, overload detection, and tracks the temperature condition of the transformer fast and accurately, empowering utilities to proactively manage their distribution system. This capability is crucial for utilities to manage and prevent the potential fire hazards quickly and efficiently.



▲ DRC-015 board



▲ Installation is quick and easy.



What Are the Key Features of the DRC-015?

Real-time Monitoring

Through real-time data acquisition, operators can now seamlessly oversee the status of LVDB from a centralized control room using our sophisticated LMS (Low Voltage Distribution Management System).

All critical status information such as power source, voltage, current, room temperature, feeder current flow, and feeder over limit current is clearly displayed on their PC screens, enabling fast and informed decision-making.

Alarm Notifications

The Alarm function of DRC-015 assists operators with prompt information of the issues inside the LVDB room. This alarm can be alerted when having over limit current, power source off, and over temperature detection.

The DRC-015 provides warning notifications when the temperature reaches its limit threshold and triggers alarms when the temperature approaches dangerous levels. In addition, the DRC-015 records abnormal situations when the temperature peaks and drops rapidly, storing this data in its abnormal feature.

These processes help prevent potential fire hazards while ensuring the safety of both personnel and equipment.

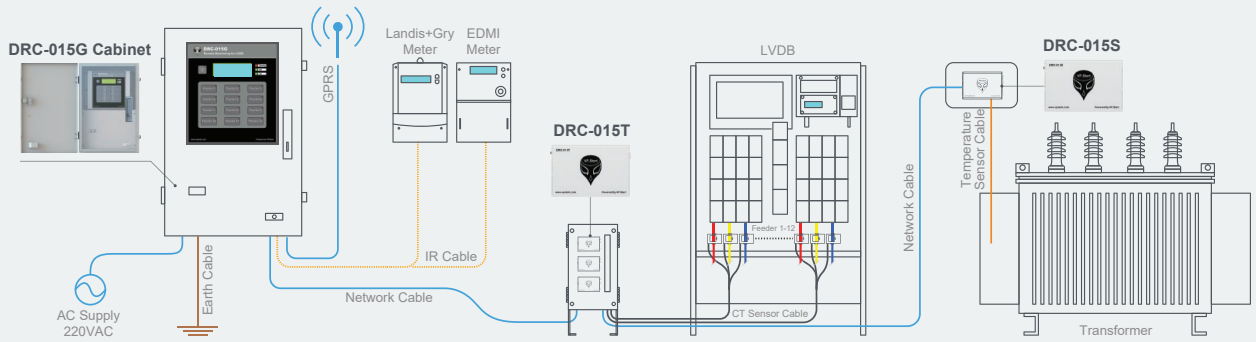
Alarms When Anomalies Occur



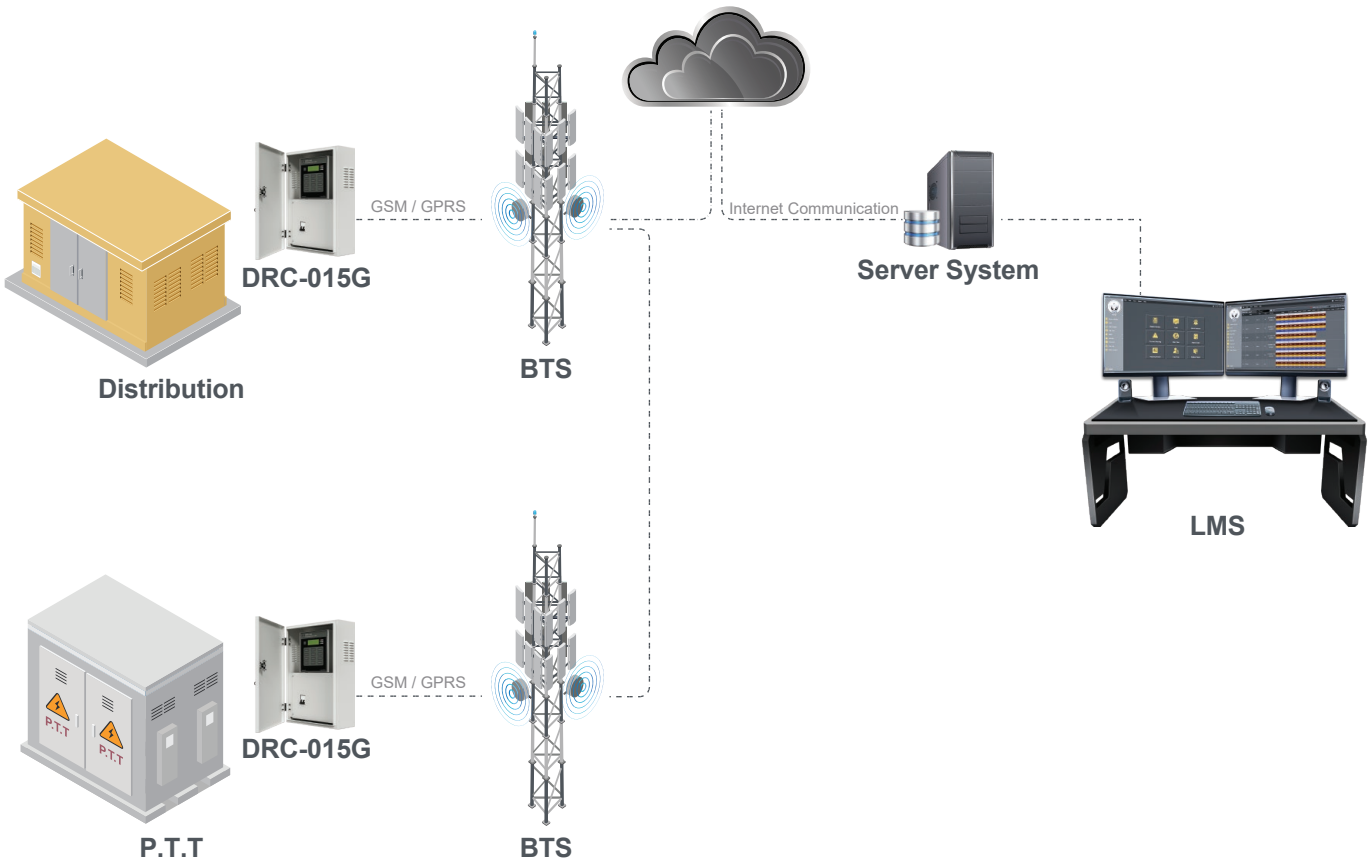
Over Current | Over Temperature | Current Warning | Source Absence

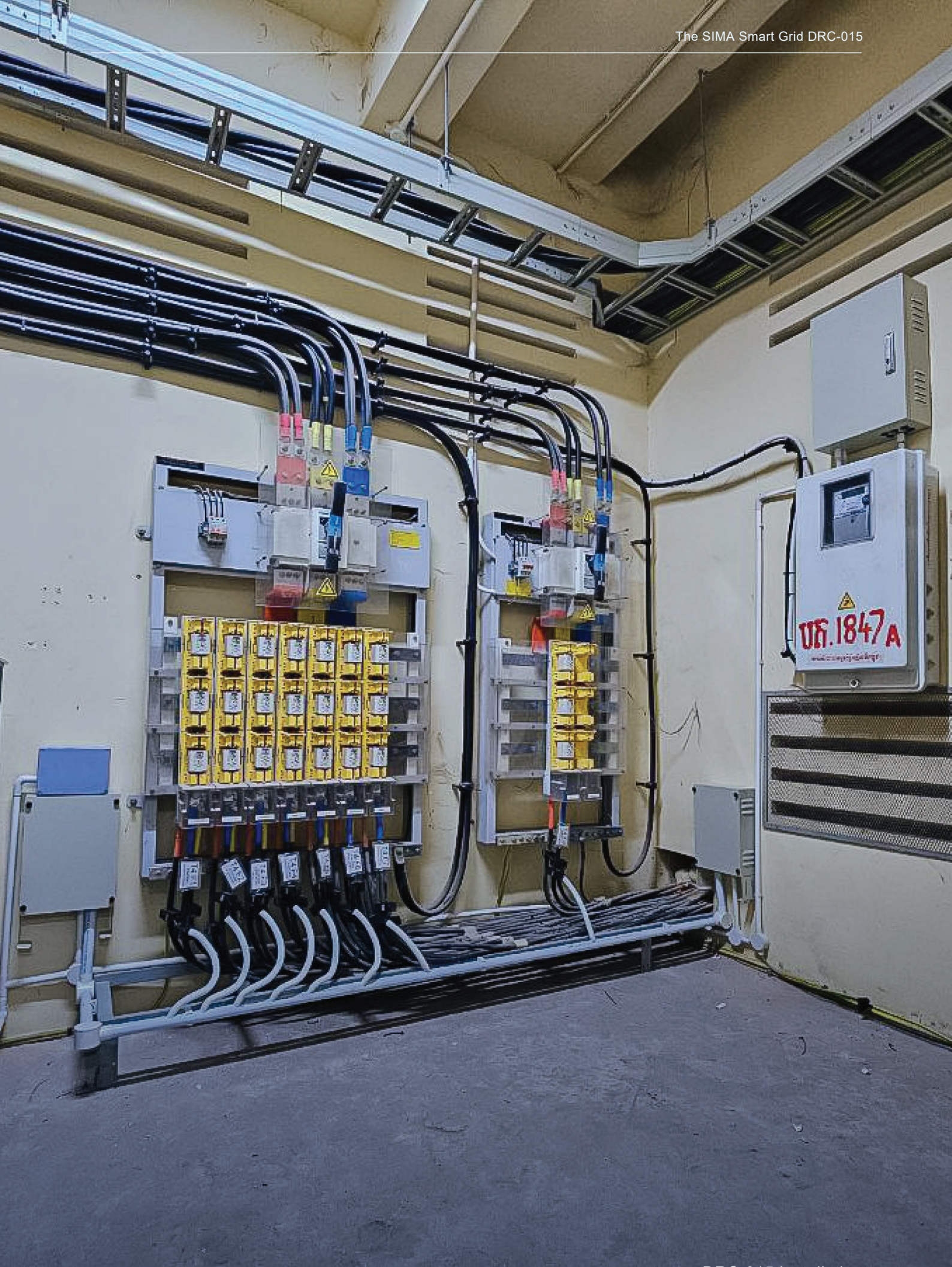
Reports and Analysis

Operators can utilize the data obtained from the LVDB for various reports, including daily analysis of over limit current, feeder line traffic analysis, daily, weekly, and monthly reports on feeder over limit current, and feeder line current warnings.



System Architecture





▲ DRC-015 Installation