grup ARGE

ENERGY AND CONTROL SYSTEMS

SmartPOWER®
www.enerjitakibi.com

SmartPOWER
Energy Management System

SmartPOWER® WEB, Energy Management Systems are web-based service platforms designed to monitor, store, analyze, report and convert instant energy data into business intelligence thanks to IoT devices and software to reduce energy costs of enterprises and increase energy efficiency. By providing important savings to its users with alarm and reporting features, the system pays itself off in a short time and then the savings rates start to be written to the profit household of enterprises.
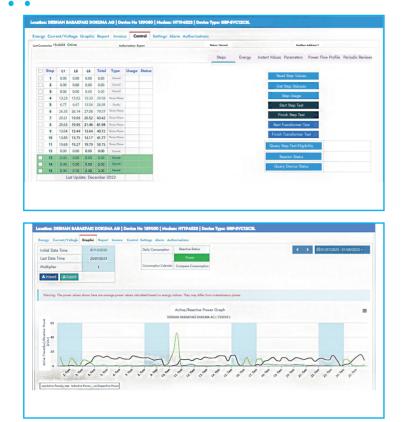
How to use it?

With RS-485, RS-232 or optical port connections, different brands of meters, relays, analyzers and many Modbus-RTU communicating devices can be connected to GSM, GSM AUTOMATION or ETHERNET terminals. Configuration and static IP are not required. Installation is completed in minutes with plug and play feature.

Businesses that can use energy monitoring systems

▷ Industrial Plants

▷ OSBs

▷ Solar Power Plants

▷ Cities and Municipalities

▷ Public Institutions

▷ Hospitals

▷ Bank Offices

▷ Supermarkets

▷ Retail Stores

▷ AVMs

▷ Restaurants

▷ Gas stations

▷ Hotels

Compensation Management Module

▷ Many brands and models of relays and analyzers can be remotely monitored and controlled.

▷ Sending Remote Commands to Devices: All features supported by the device such as transformer test, step test, step status, instant current / voltage information and instant index reading can be controlled by remote command.

Electricity Meter monitoring Module

▷ It enables the creation of invoices in the closest way to the actual invoice format with tariff settings that can be customized by the user, taking into account all cost items in electricity invoices.

Electricity Billing Module

▷ It is used for billing business and common consumption in buildings with common use areas such as OSB and shopping malls.

Device Control Module

▷ The GSM modems have 2 input/output and 8 input/output modules that can be monitored and controlled over the system.

Generator Control Module

▷ Generator status, oil pressure, temperature, fuel level, battery voltage, total operating time, number of restarts, time to next maintenance, total energy produced, grid voltages, grid frequency, generator voltage, generator frequency, current drawn, active power, reactive power, engine rotation speed, etc.

Natural gas monitoring module

▶ Taking into account all cost items in natural gas invoices, it ensures that invoices are created in the closest way to the actual invoice format with tariff settings that can be customized by the user.

Water Meter monitoring Module
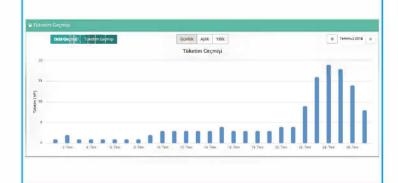
▶ Index data can be received from meters with MODBUS communication module.

Invoice Monitoring Module

▶ Index data can be received from meters with MODBUS communication module.

▶ Subscribers who enter a reactive penalty or approach the penalty limit can be reported.

Analog monitoring Modüle

▶ 4-20 mA and 0-10 V are used for collecting and reporting data from analog sensors.

Flow Rate Measürement Modüle

▶ Flow rate can be measured by using a flow meter. Instant flow rate measurement can be done.

I> **Energy Quality:** You can constantly monitor the energy you use, and in case of possible failure, you can make effective decisions and intervene quickly thanks to the SmartPOWER energy monitoring system.

I> **Quick Installation:** you can monitor your data and control your devices from anywhere, from any phone, tablet or computer with an internet connection, without the need to install a program.

I> **Remote Tracking:** With Remote Tracking System electricity, water, natural gas consumption information and control of devices in the enterprises are provided in a business-specific manner. In addition, these data can be compared to the previous day, week, month and year, etc. information can also be obtained.

J> **Alarms/Alerts:** By defining special alarms, you can be notified by e-mail and SMS without the need to monitor the system.

|> **Reporting:** By defining tariffs, you can track invoices, report active / reactive consumption and print out in different formats.

|> **Ease of Use:** It has a user-friendly interface. It is simple to use. You can simply make comparisons and analyzes thanks to reports reinforced with visual graphics.

|> **Group and Subgroup Creation/Comparison:** Thanks to the business view, you can analyze your businesses by grouping them by creating groups and subgroups and make comparisons between them.

|> **Get Rid of Reactive Penalty:** You can analyze the reactive rates on the graph and detect problems, detect problems such as phase interruption, voltage drop / rise, failure of meter current transformers or remote control of your relay in real time.

|> **Business Analysis:** Consumption data can be analyzed graphically and in tables. Based on this data, necessary determinations can be made and necessary steps can be taken to reach the best solution. In this way, energy efficiency is ensured by minimizing costs.

▷ **Brand Independent:** Brand and model independent unique device definition can be made.

|> **Plug and play:** No configuration and static IP required. Installation is completed in minutes with plug-and-play feature.

|> **Flexible user:** Thanks to the flexible user authorization system, you can create and authorize sub-users.

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Control Your Energy