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Energy Management System

SmartPOWER[®] ENERGY MANAG EMENT SYSTEM



SmartPOWER® WEB, Energy Management Systems are webbased 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?

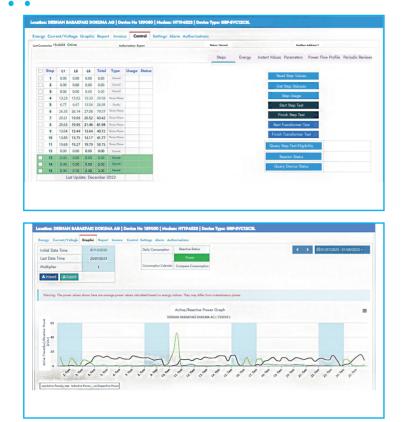
With RS-485, RS-232 or optical port connections, different brands of meters, relays, analyzers and many Modbus-RTU communicating devices can be connected to GSM, GSM AUTOMATION or ETHERNET terminals. Configuration and static IP are not required. Installation is completed in minutes with plug and play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

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SmartPOWER[®] MODELS AND FEATURES



Business Name	research research 3		Meter No:	AEL51003419
Contract Power	60 kVA		Installation No:	
Inductive Limit	% 20		Tariff Type:	Tek Zamanlı
Capacitive Limit	% 15		Invoice Day	1
	DATE	ACTIVE	INDUCTIVE	CAPACITIVE
Initial Index	01.11.2015 (00:04)	607.158	100.342	19.554
Last Index	10.11.2015 (13:51)	614.476	100.999	19.867
Difference	and the second second second	7.318	0.657	0.313
Multiplier	Section and section	1260	1260	1260
Consumption		9,220.680 kW-h	827.820 kVArh	394.380 kVAr-h
Reactive Rate	and the second second	And the second second	% 9.0	% 4.3
Unit Price	a second definitions	0.217000 TL/kWh	and the second states and the	Second Second
Consumption Amount	and the second second	2,000.89 TL	Second and Second	Shan Andrews and
Initial Index	Standyna (Stevenski)	DAY (06:00 - 17:00)	PUANT (17:00 - 22:00)	NIGHT (22:00 - 06:00
Last Index	01.11.2015 (00:04)	384.049	105.519	117.590
Difference	10.11.2015 (13:51)	388.805	106.535	119.136
Multiplier		4.756	1.016	1.546
Consumption	Second and second	1260	1260	1260
Reactive Rate	Second and Second	5,992.560 kW-h	1,280.160 kWh	1,947.960 kWh
Unit Price	to a strange a constant			- Artesta and a second
Consumption Amount	Strengt of the second second	to an	1.40 million	Conception - 100
	K/K Fee	Per. Sat. Hiz. Bd.	PSH (Say. Oku.) Bd.	lle. Sis. Kul. Bd.
Amount	0.00 TL	67.31 TL	0.59 TL	80.22 TL
	Distribution Fee	Energy Fund (% 1)	TRT Share (% 2)	Tax P(%
Amount	266.48 TL	20.01 TL	40.02 TL	100.04 TL
to in this final of	Power Amount	and the second second second	- and the second	Section Section
Amount	0.00 TL	Service Contraction	Margaret Schoolsen	and a state of the second state
KDV (% 18)	Constant of the second	Condense Milleringel i La	en de la seconde de	463.60 TL
Total Amount	3.039.16 TL			



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.



SmartPOWER® MODELS AND FEATURES

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

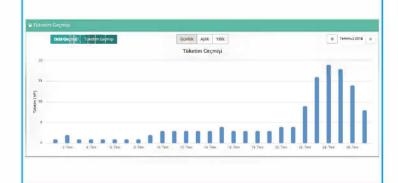
Index data can be received from meters with MODBUS communication module.

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.

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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. 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> 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.



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SmartPOWER® SOLUTIONS

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



I> 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.



I> 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.

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I> 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.



I> Plug and play: No configuration and static IP required. Installation is completed in minutes with plugand-play feature.

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



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Energy Management System

Control Your Energy

