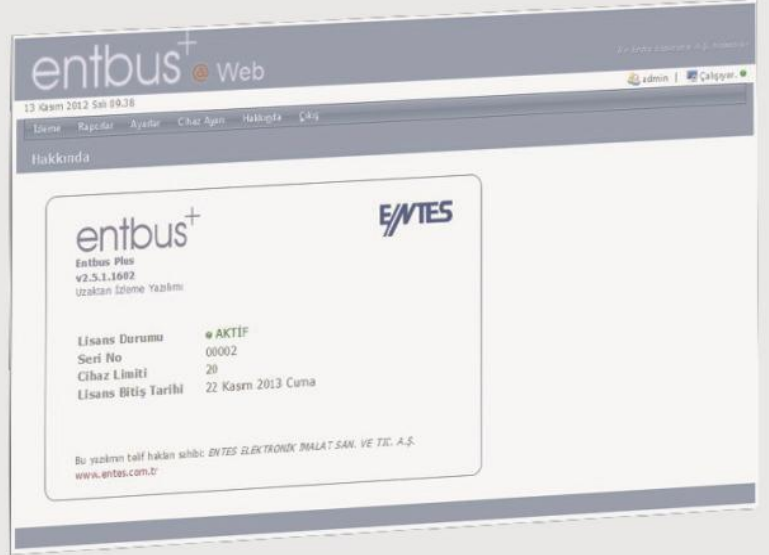


Entbus+

User Manual



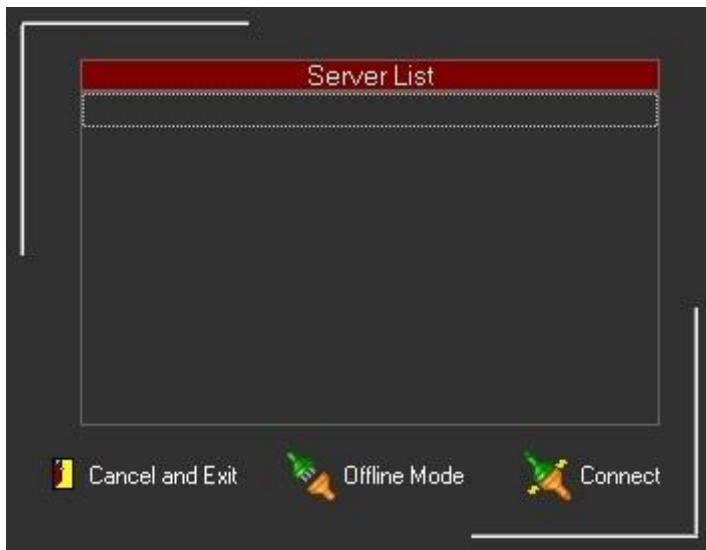
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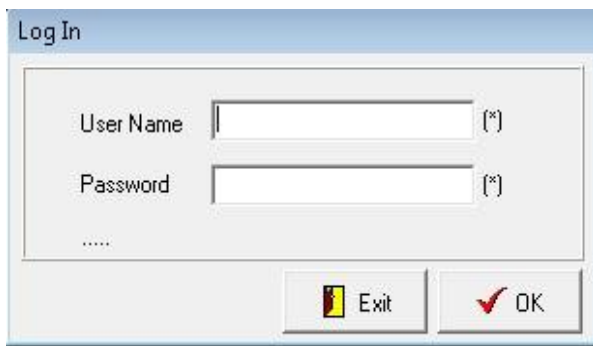
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Entbus+ Monitoring module



If no server is defined, the list will be empty like the one in the screenshot below. The servers that you will define will show up on this list the next time that you start the program. Because there are no servers to connect when you run the program for the first time, you have to click on the “**Offline Mode**” button and create a new server.

Double click on the server that you want to connect.

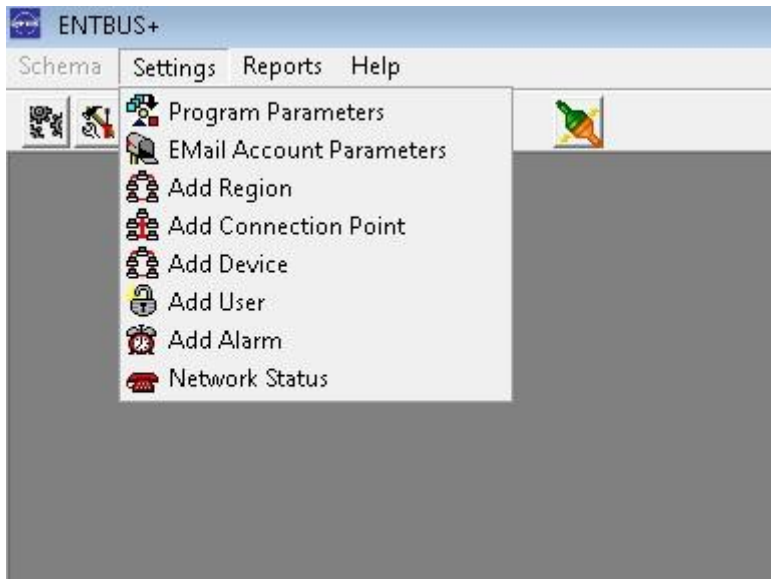


The User Name: admin

Password: 1234

Information must be entered on the first launch of the program.

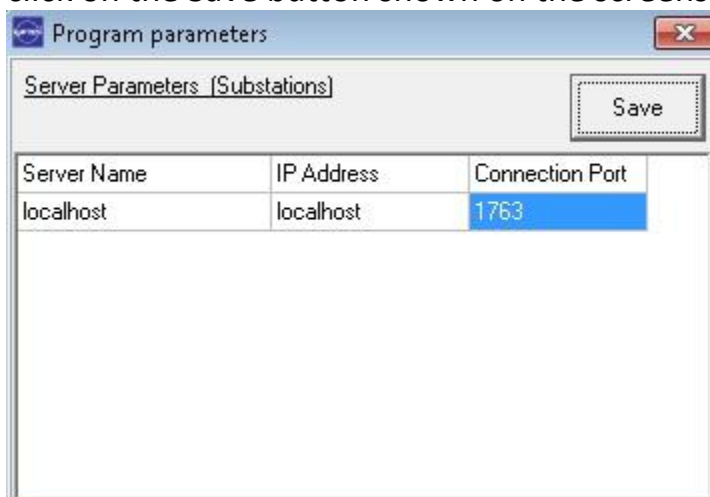
For the next step, click on the **Settings**→**Program Parameters** from EntBus Plus module menu.



A new window will open that lists the names, IP addresses and port numbers of the entserver modules to be connected. You can change any one of the connection settings by double clicking on that connection.

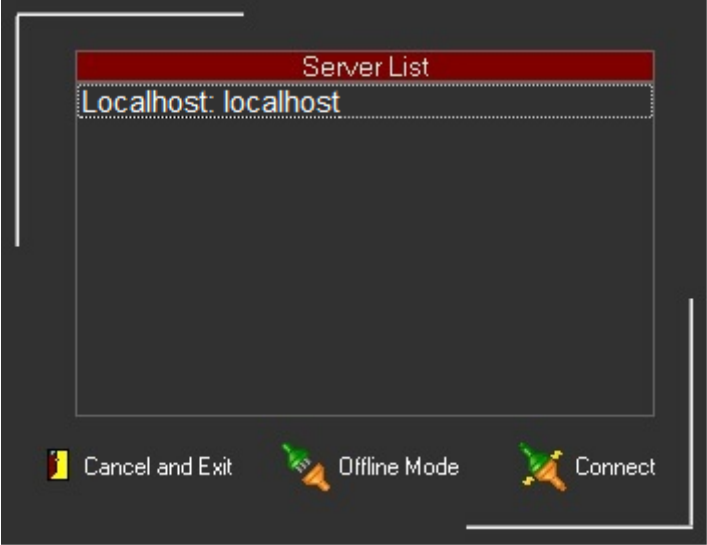
If you right click on the list, you can add a new connection to the list by clicking on the “**Add New**”. When you double click on the newly created entry, you can enter the necessary information.

After you created a new connection or modified an existing one, do not forget to click on the Save button shown on the screenshot below.

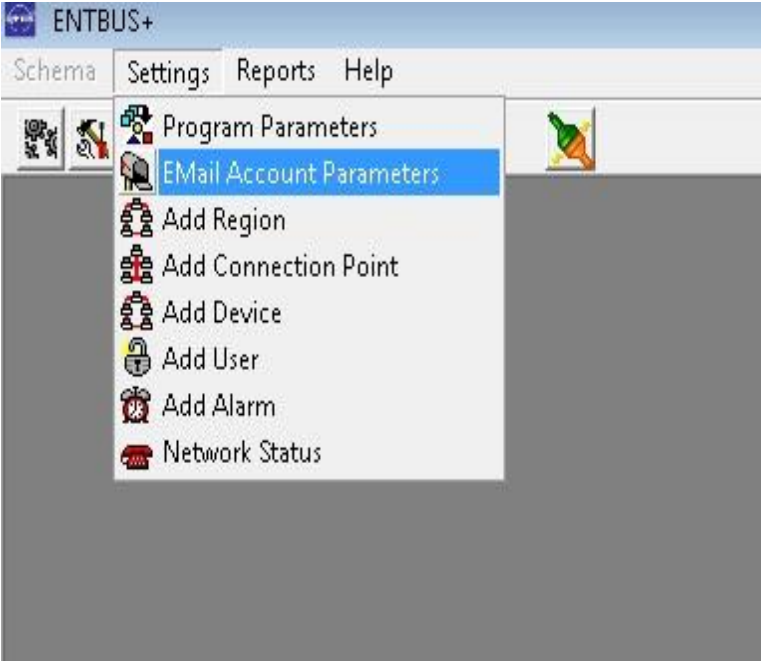


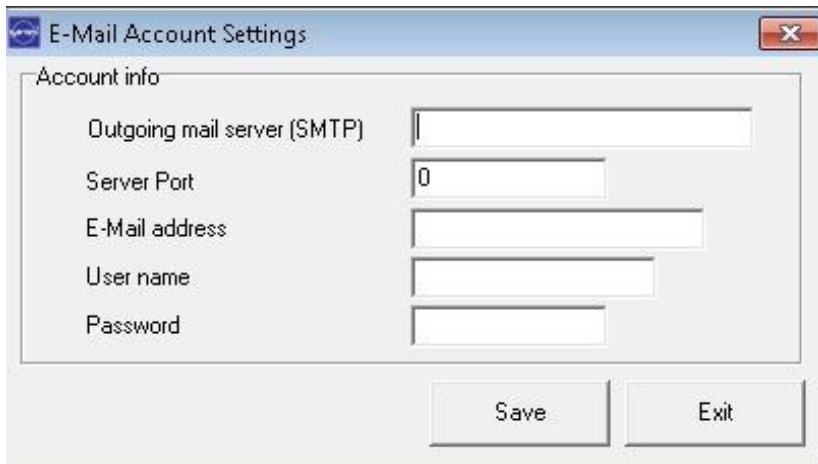
The IP address to be entered is the static IP address for the connection point provided by the ISP. The communications port number is 1763 by default and can be changed to another desired number from the EntServer program installed on the computer at the connection point.

After you defined the IP address of the entserver that you want to connect to under the Program Parameters menu, close and launch the **program again**. When you launch the program again, the server settings that you saved will be shown on the Server List.



E-mail Account Settings:

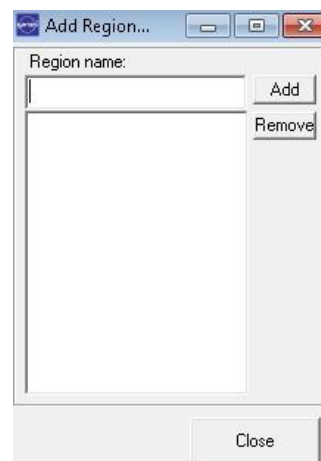
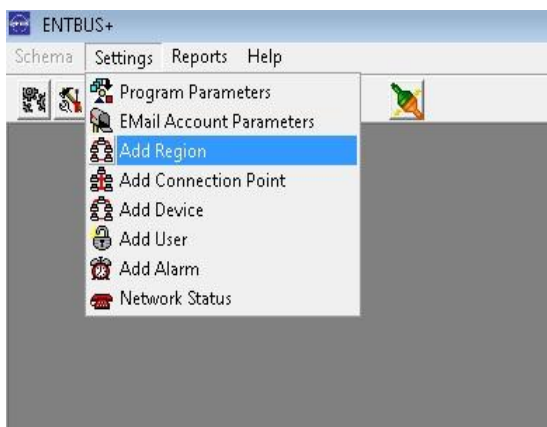




If you want EntBus+ software to send you notifications via e-mail when an alarm occurs or when you forget your password, you must enter your e-mail account information in the program. You can enter this information as displayed on the screenshot above.

Adding Region:

A region is a virtual structure for grouping the devices by the user preference. Click on Add Region option under Settings menu.

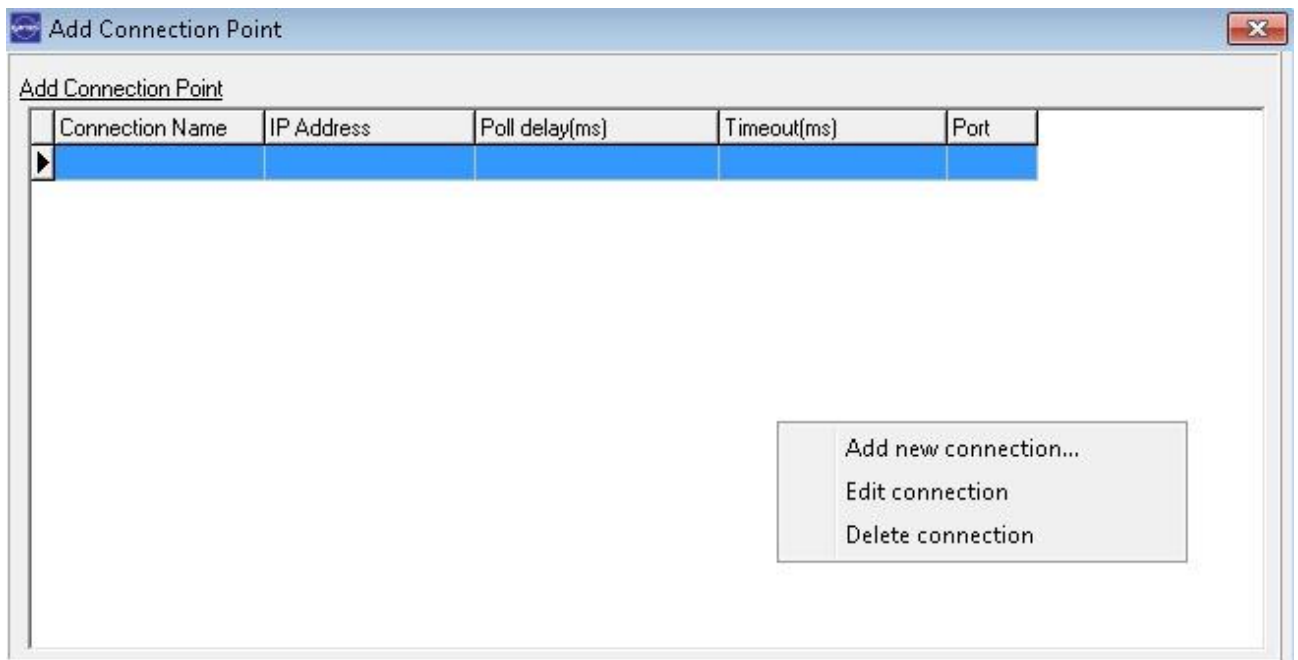


A region is defined in the opened **"Add Region"** window and **"Add"** button is clicked on. Clicking on **"Close"** button will close this window.

Adding Connection Point:



Modbus converters are defined to the system from the **“Add Connection Point”** menu shown on the screenshot above.



The connection point adding screen is shown on the screenshot above. By right clicking on the list and clicking on the **“Add New Connection”**, the window where you can add a new connection point is reached.

Connection Point Details

Enter connection point info.

Connection Point Name

IP

Poll delay (ms.)

Timeout (ms.)

Port

Connection Name: It is the name that will be selected later when adding an analyzer. The Ethernet converter that is defined in the program will be named from this field.

IP: It is the IP address of the Ethernet Converter (EMG12). It represents the address of the analyzers' RS485 – Ethernet Converter (EMG12). The factory default value for this address is 192.168.2.240 and the CD that is bundled with EMG12 contains the necessary document and program to change this address

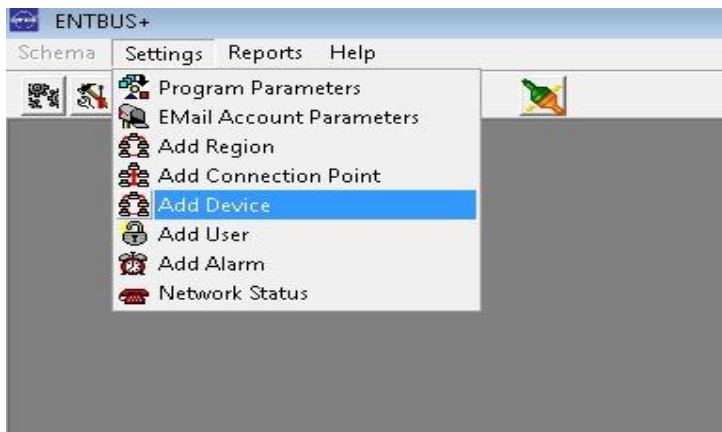
Poll Delay: It represents how frequent every analyzer that is connected to this connection port will be queried in milliseconds. Standard value is 200 milliseconds.

Timeout: This value represents the maximum waiting time when no information from the analyzer can be read. Standard value is 1000 milliseconds.

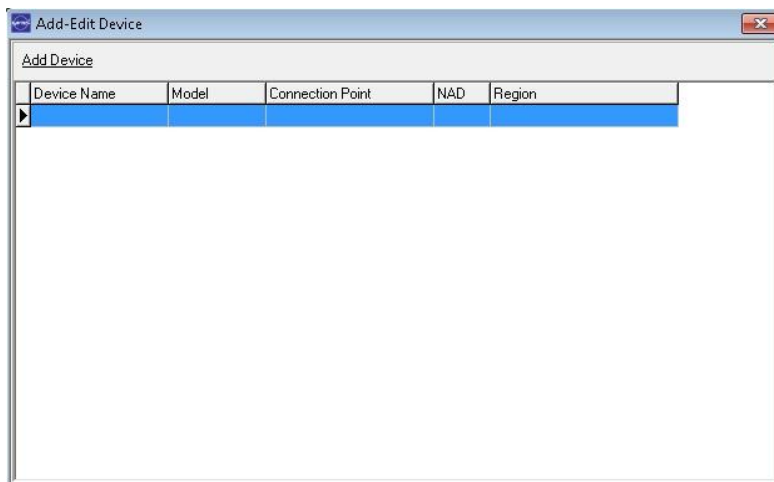
Port: It represents the port number that will be used to connect to the Ethernet Converter. The general port number for Modbus is 502.

After you entered the appropriate settings, save your settings by clicking on the **Save** button.

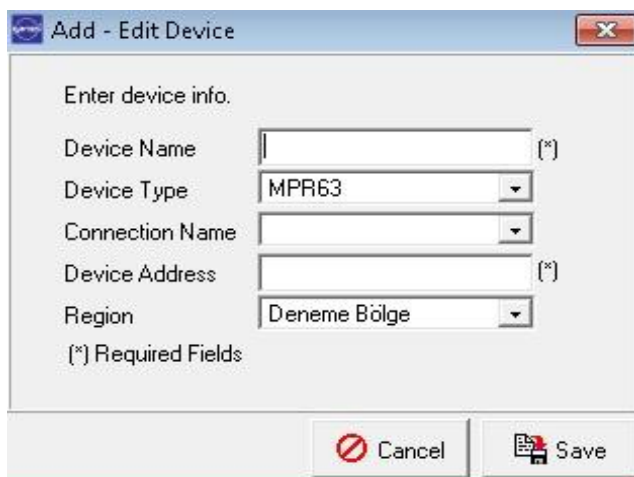
Adding Device (Analyzer):



- 1) Click on the “**Add Device**” menu option shown above. In this step, the devices from which the information will be read will be defined on the system.



- 2) Right click on this list and click on “**Add new device**” option in the opened menu.

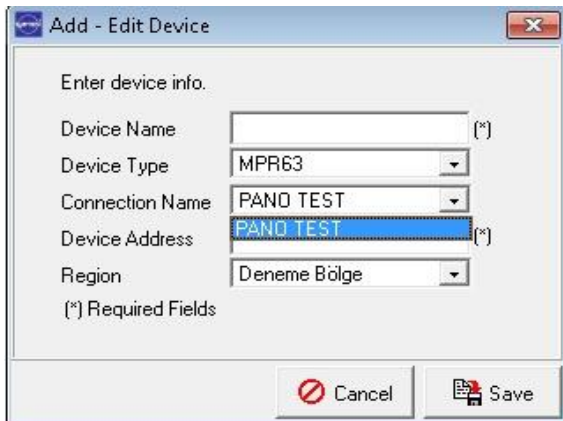
The screenshot shows the 'Add - Edit Device' dialog box with the following fields filled: Device Name (empty), Device Type (MPR63), Connection Name (empty), Device Address (empty), and Region (Deneme Bölge). There are 'Cancel' and 'Save' buttons at the bottom.

Enter device info.	
Device Name	<input type="text"/> (*)
Device Type	MPR63
Connection Name	<input type="text"/>
Device Address	<input type="text"/> (*)
Region	Deneme Bölge
(*) Required Fields	
<input type="button" value="Cancel"/>	<input type="button" value="Save"/>

Device Name: It is the Analyzer name which will be listed in reporting and monitoring interfaces.

Device Type: Select the type of the device from the list.

Connection Name: You can select the Ethernet Converter to which the device is connected from the opening list.



Device Address: It is the Modbus address of the device (Analyzer). This number and the number in the “Adr” section under RS485 menu of the device to be added must be the same.

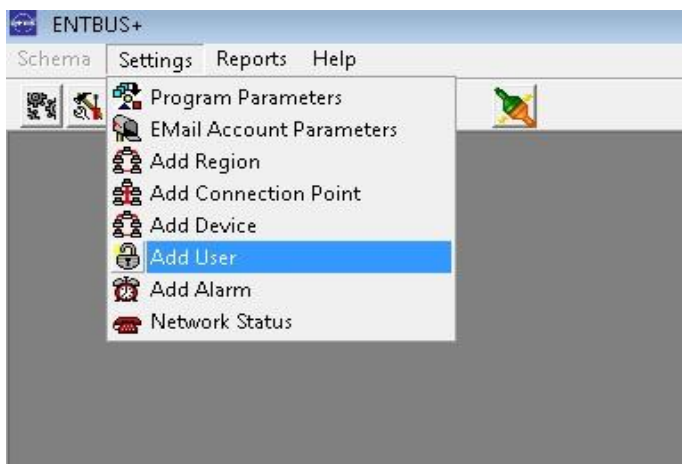
Region: You can select the Region to which the device will be added from the opening list.

Save the settings that you entered by clicking the **Save** button.

Note: In order for the entered or changed settings to be effective after you added a new analyzer or connection to the software; you have to close the EntBus Plus software, restart the Entserver module from Control Panel/Administrative Tools/Services window and **restart the EntBus Plus software.**

Adding User:

A user with a specific authorization is defined in this menu.



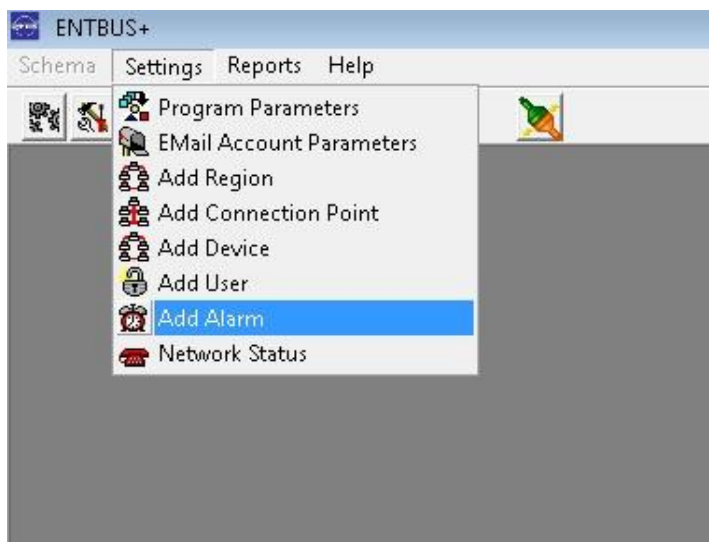
A User Name and a Password must be defined to enter to the Remote Monitoring and EntBus Plus program. You can define two different levels for a user.



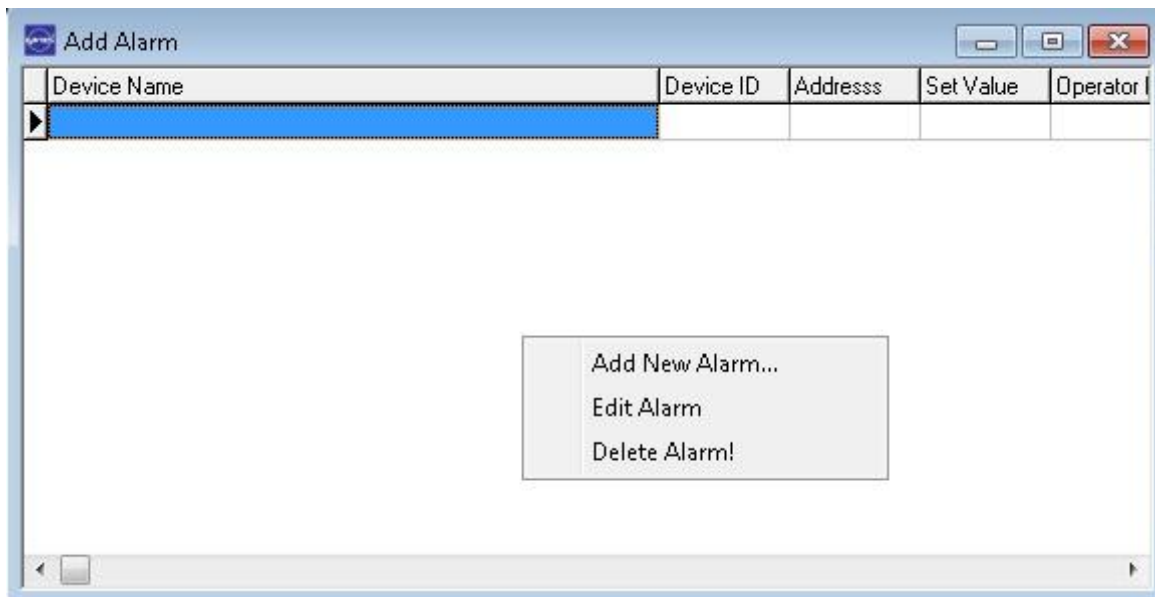
Users at administrator level can browse all the menus of EntBus Plus program. Users at operator level can only monitor the analyzers and can't change any settings in program or devices.

Adding Alarm:

“Add Alarm” is selected from the Settings menu.



- 1) To add a new alarm, right click on the opened window and select “Add new alarm” option.



2)

Follow these steps in order to create an alarm:

Alarm type: Set point or Window in/out alarm

Select device: Select any device that you created.

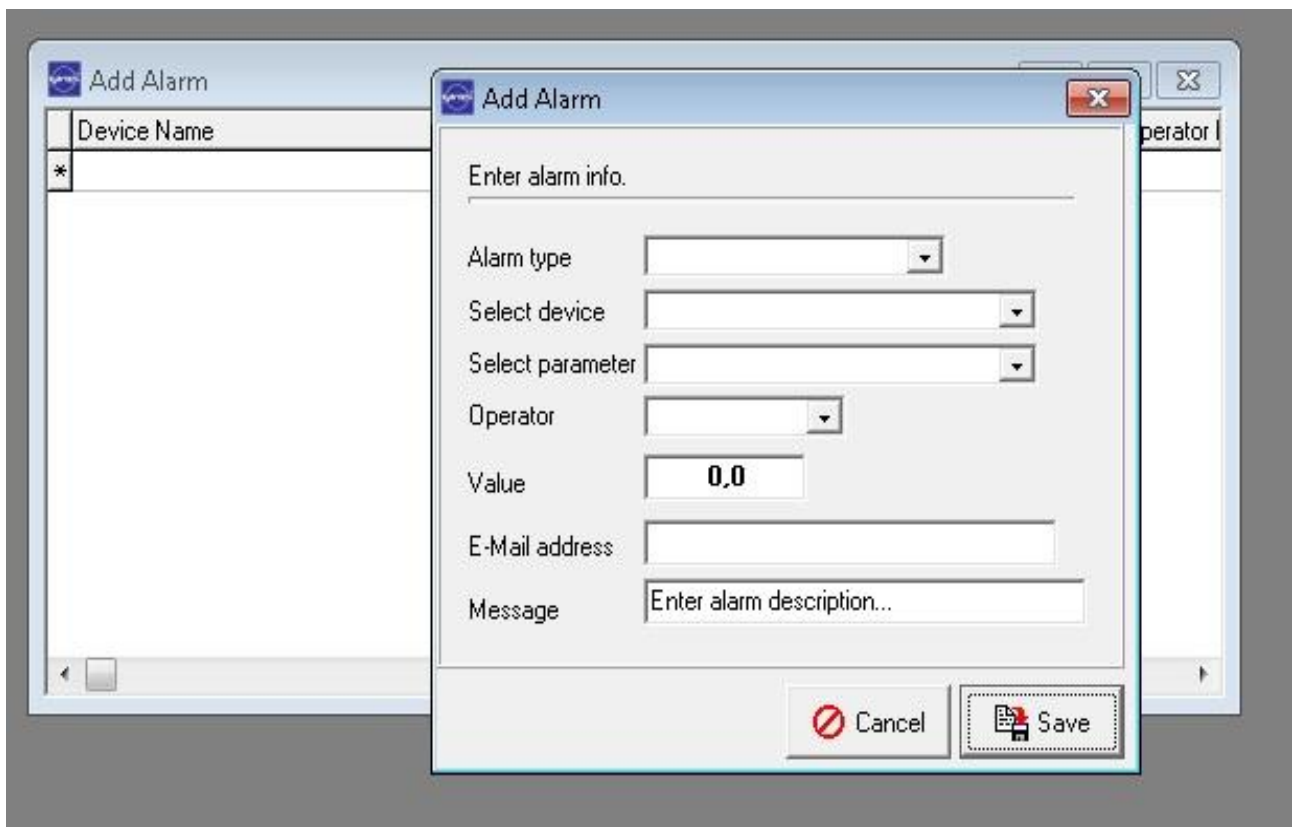
Select parameter: Any desired parameter of the selected device

Operator: >, <, =, >=, <=

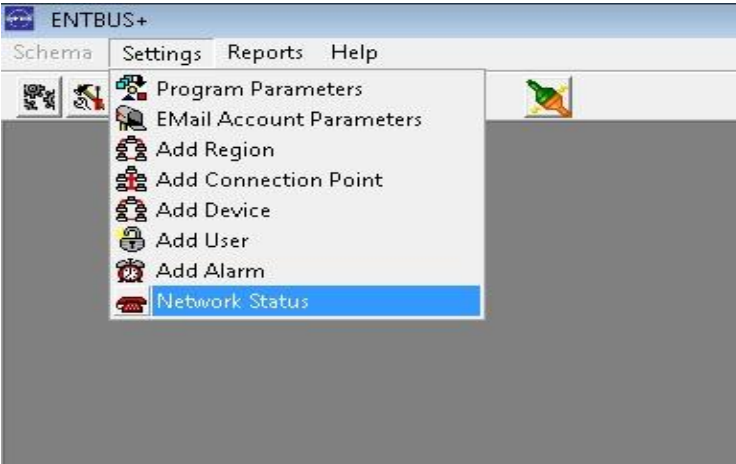
Value: Any desired value

E-Mail address: Address to send the alarm notification

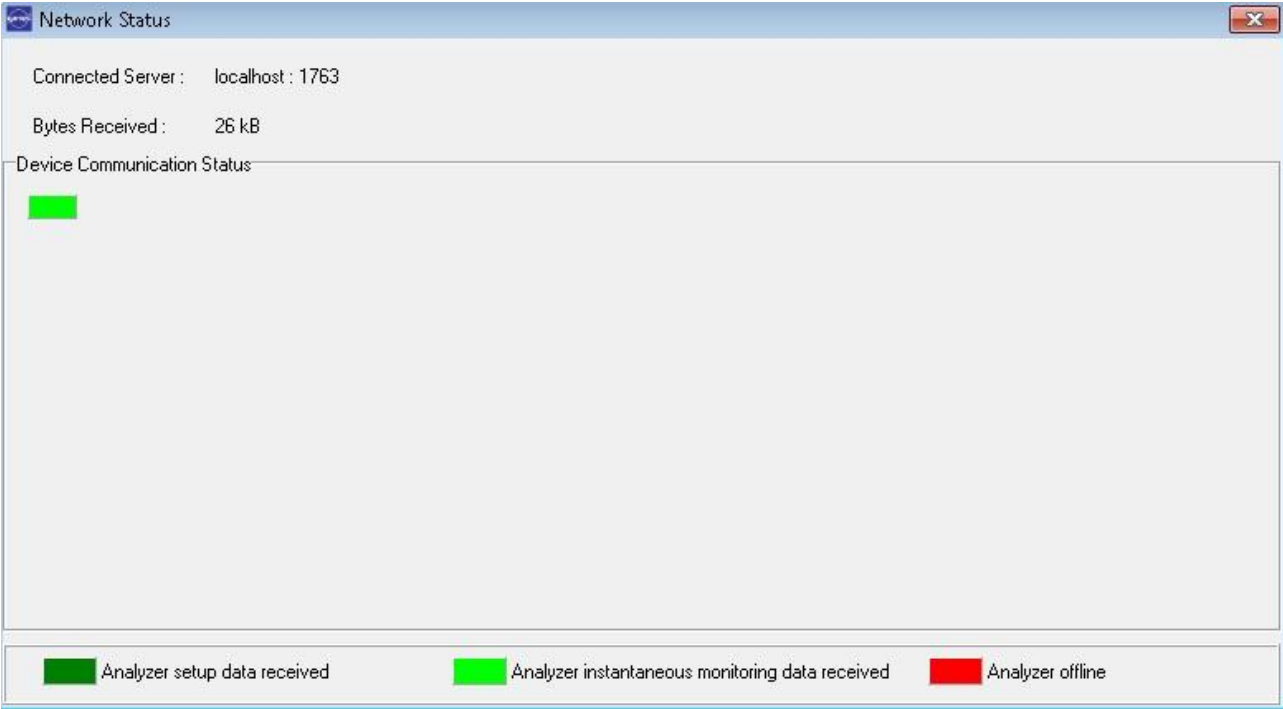
Message: Appropriate description for the alarm



Network Status:

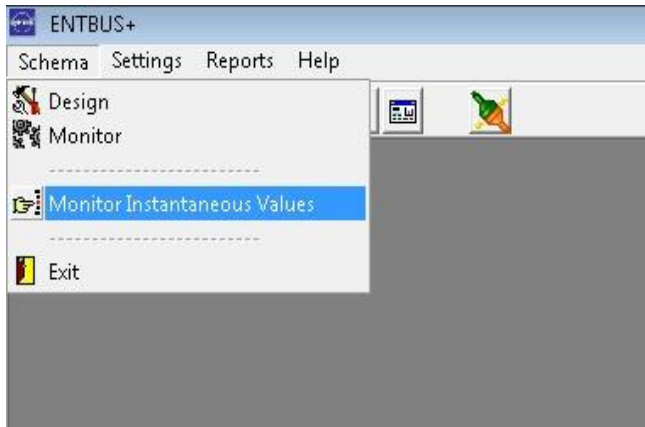


In this menu, the **IP address** and port information of the transformer station that you are connected and the received data is displayed. Each rectangle represents a device. When you move the mouse over a rectangle, the device that the rectangle represents is displayed.

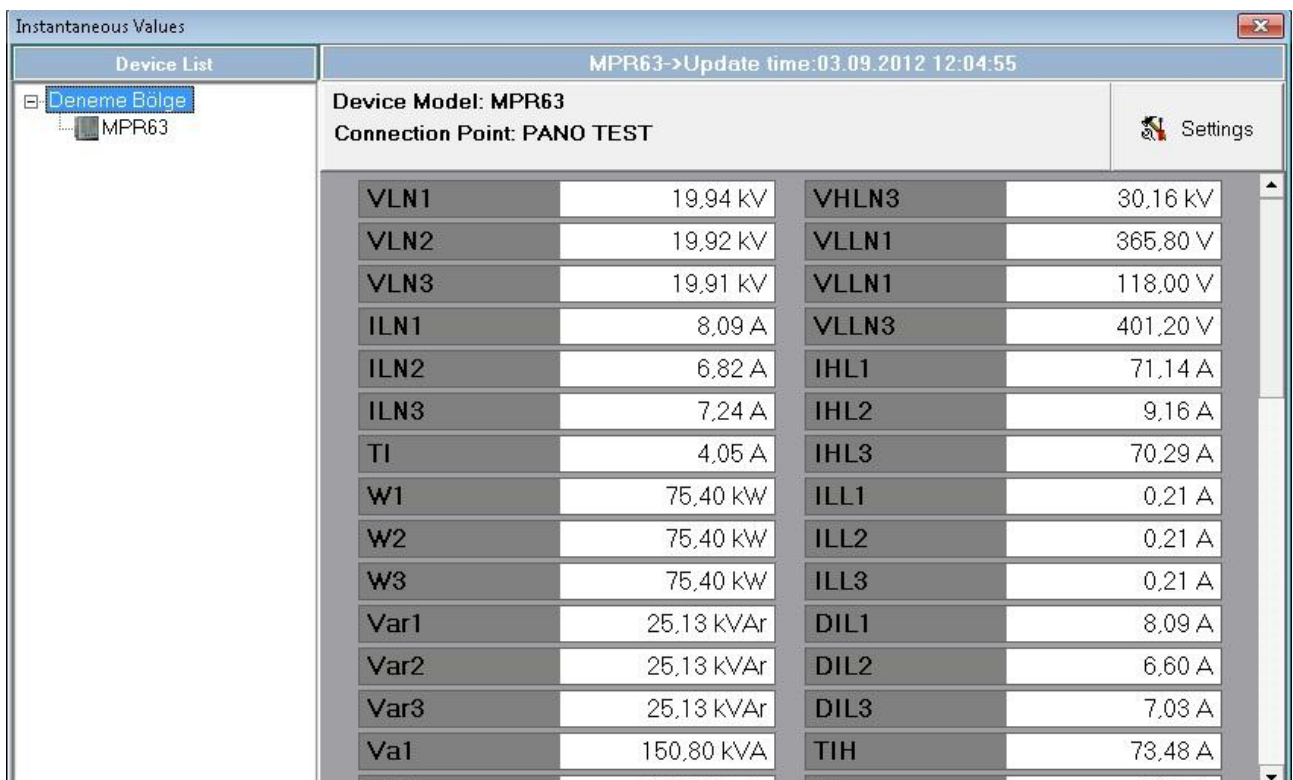


Monitoring Instantaneous Values:

Click on “**Monitoring Instantaneous Values**” option from the Schema menu of the program.



This menu opens a window where the parameters of the analyzers that are added to system are displayed in a table form.

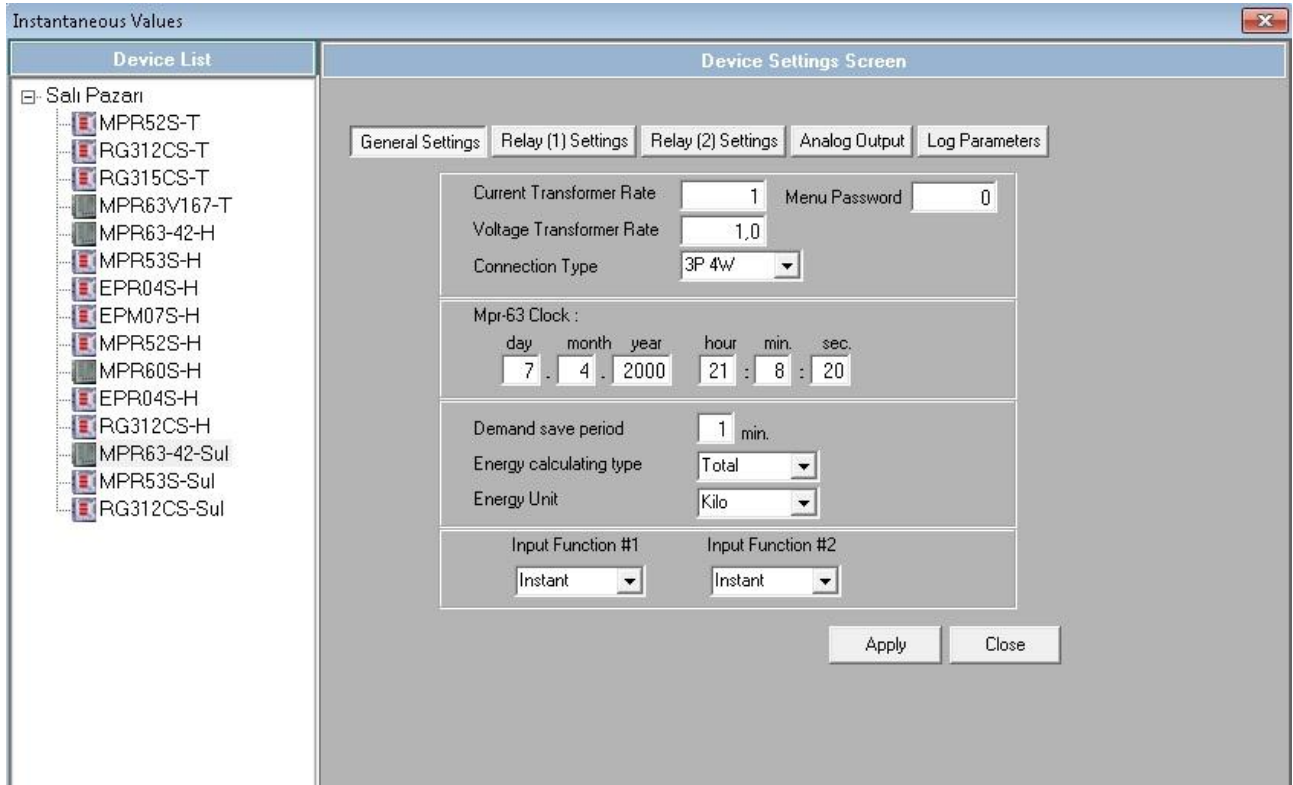
The screenshot shows the 'Instantaneous Values' window. The title bar indicates 'MPR63->Update time:03.09.2012 12:04:55'. The window is divided into a 'Device List' on the left and a main data table on the right. The 'Device List' shows 'Deneme Bölge' and 'MPR63'. The main table displays various electrical parameters for the device.

Device Model: MPR63		Connection Point: PANO TEST	
VLN1	19,94 kV	VHLN3	30,16 kV
VLN2	19,92 kV	VLLN1	365,80 V
VLN3	19,91 kV	VLLN1	118,00 V
ILN1	8,09 A	VLLN3	401,20 V
ILN2	6,82 A	IHL1	71,14 A
ILN3	7,24 A	IHL2	9,16 A
TI	4,05 A	IHL3	70,29 A
W1	75,40 kW	ILL1	0,21 A
W2	75,40 kW	ILL2	0,21 A
W3	75,40 kW	ILL3	0,21 A
Var1	25,13 kVAr	DIL1	8,09 A
Var2	25,13 kVAr	DIL2	6,60 A
Var3	25,13 kVAr	DIL3	7,03 A
Va1	150,80 kVA	TIH	73,48 A

The information on this window is updated according to the network speed and the “**Data Read Interval**”. If there is a communication problem with the Analyzer that you selected, the background of the window becomes red and a “**No Response**” warning shows up on the active Analyzer line. In this case, you have to resolve the connection problems with the Analyzer. After you resolved the connection issues, Entserver module will automatically resolve the error in the program and the window should return to normal.

Device (Analyzer) Settings:

The screen below will open when you click on the Settings button on the “**Monitor Instantaneous Values**” window.



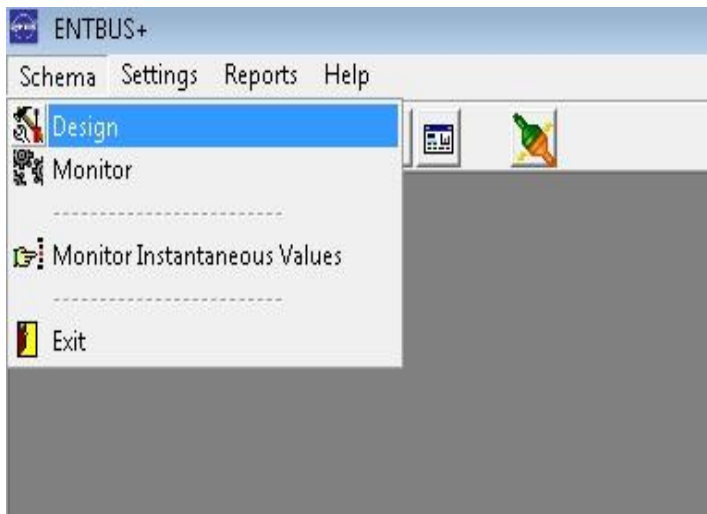
The settings can be changed only by a user who logged in with “**Administrator**” rights. A user who logged in with “**Operator**” rights can only see the settings but can not change them.

After you entered the changes to the fields of respective parameters, click on the “**Apply**” button. The changes that you committed will be active after 3 or 4 seconds.

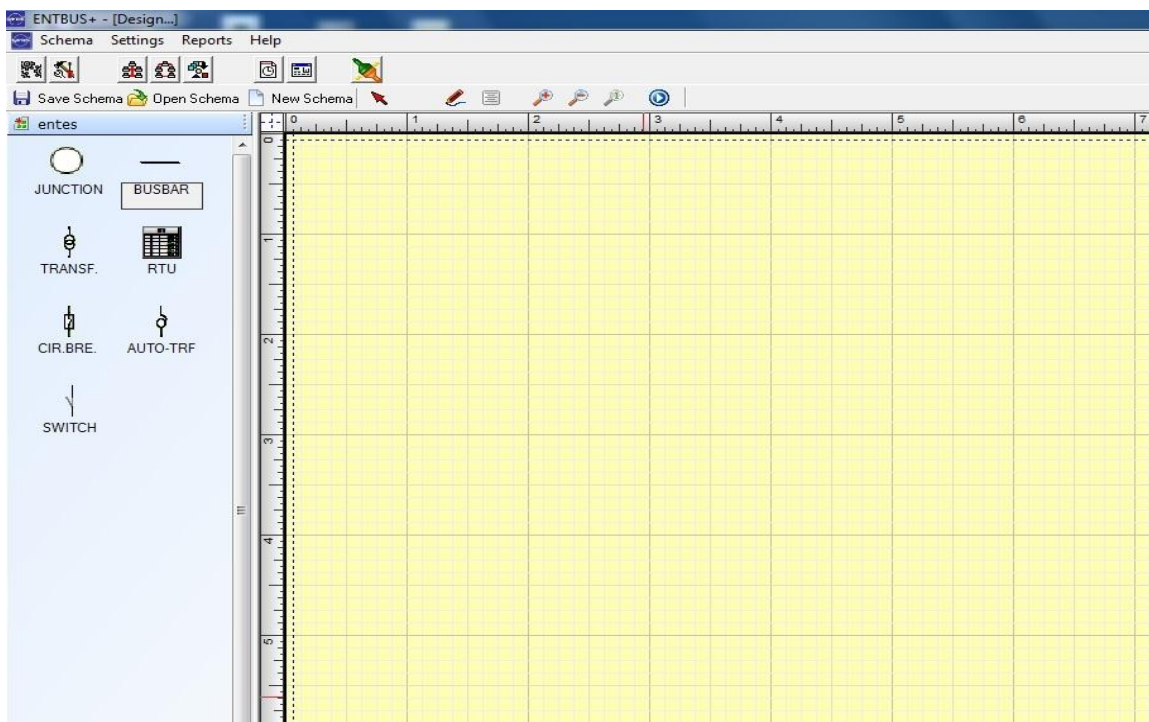
Note: While changing the settings over the Internet, the changes may not take effect if the operation is delayed because of the connection speed. In this case, please restart the program and try again.

Drawing and Displaying the Mimic Schematics:

Click on **Schema** → **Design** under system menu.



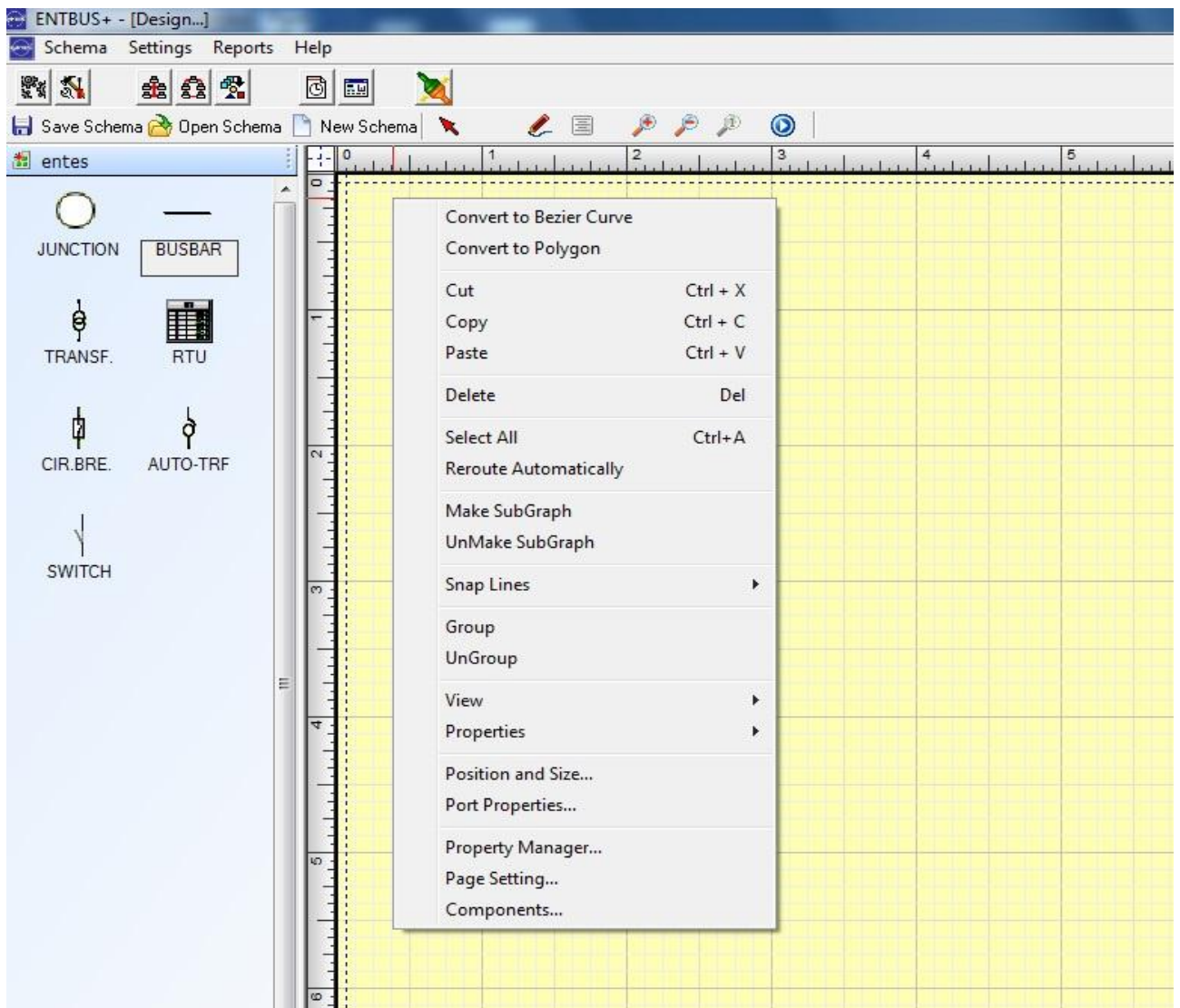
Note: If the Entserver module and TMizleme module is installed on the same PC, the designed and saved schematics will be received by all the clients who connect to the EntServer module. But if you are connecting to the EntServer module remotely, the schematics that you designed and saved can only be viewed on the computer that you designed them.



The first time the window is opened, it will be opened ready to draw. In the toolbox at the left side of the screen, there are drawing tools that you can drag and drop to the drawing area.

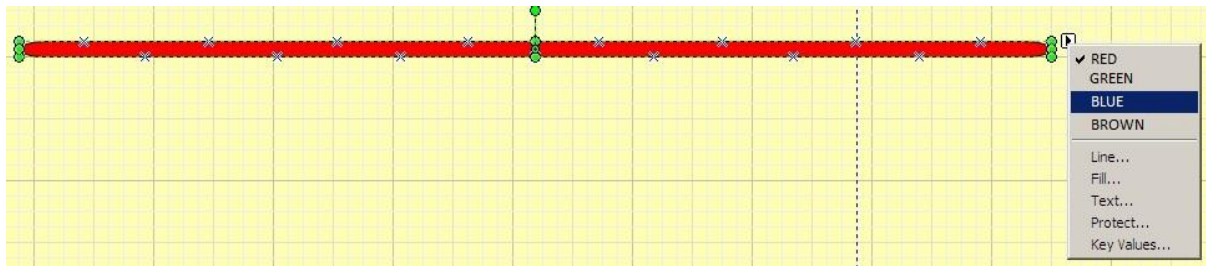


When you click on the right mouse button on the empty part of the screen, a menu as in the following screenshot is displayed.

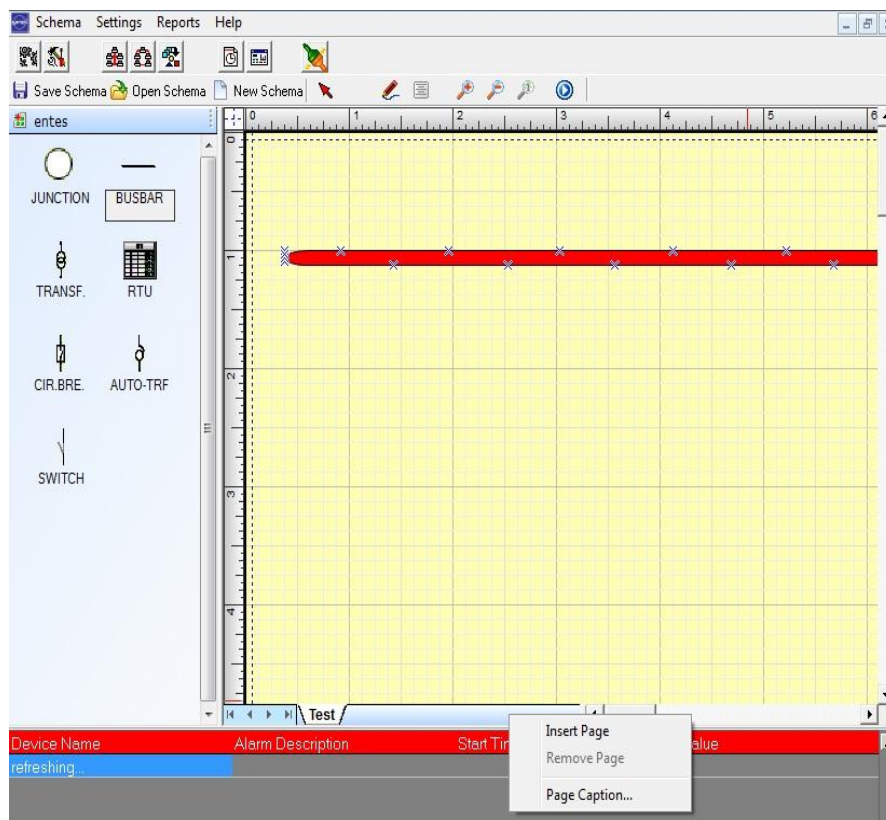


Drawing Tools

Bus bar:



When you drag and drop the BUS BAR tool from the toolbox, the BUS BAR tool will show up in the default red color. When you click on the “right arrow” on the right side of the bus bar while the bus bar is selected, a menu like the screenshot above will open. You can set the bus bar color from this menu. You can increase and decrease the length of the bus bar.



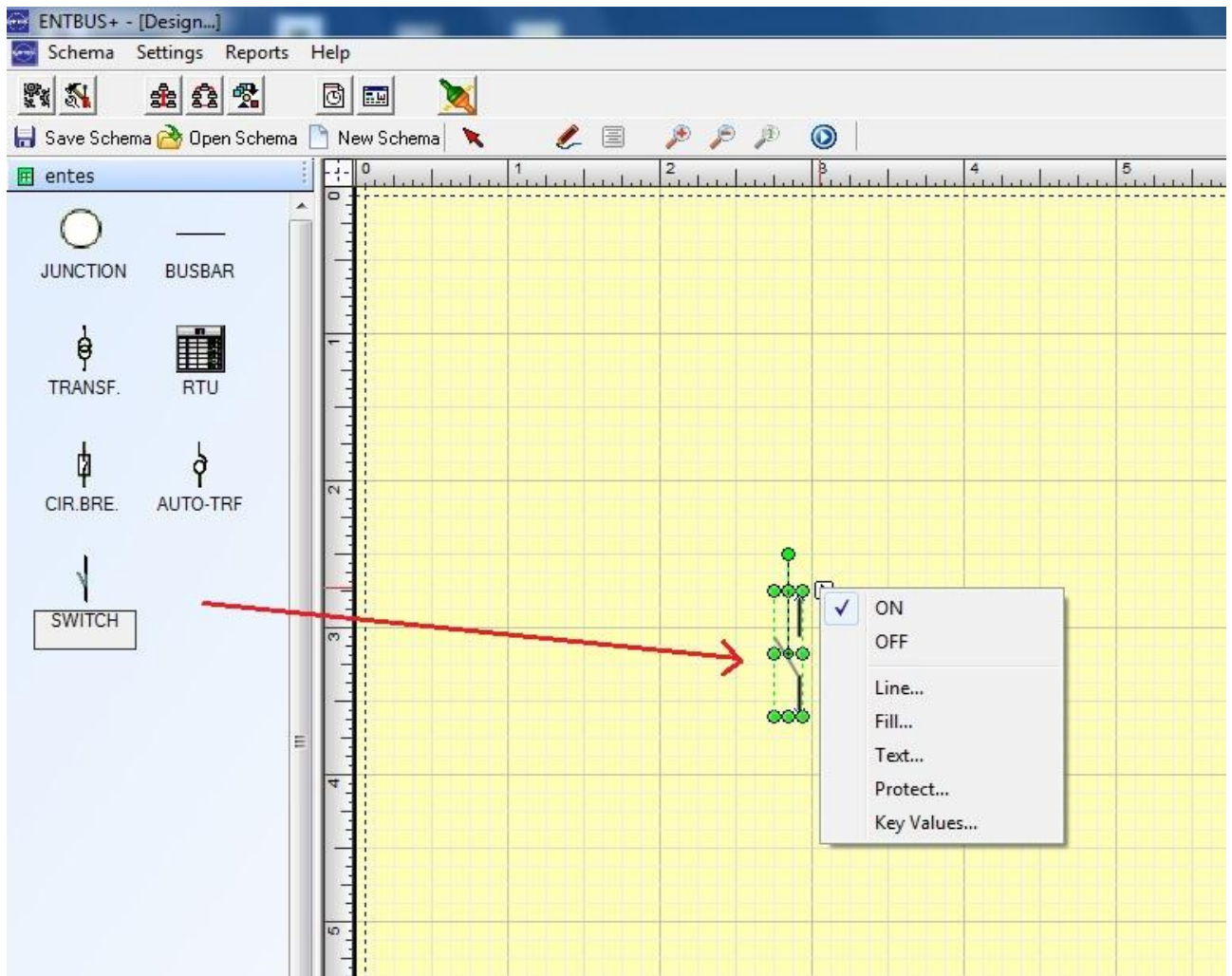
When you right click on the area next to “Test” text, following operations can be realized.

Insert Page: Inserting a page.

Remove Page: Removing a page.

Page Caption: Renaming a page.

Switch:

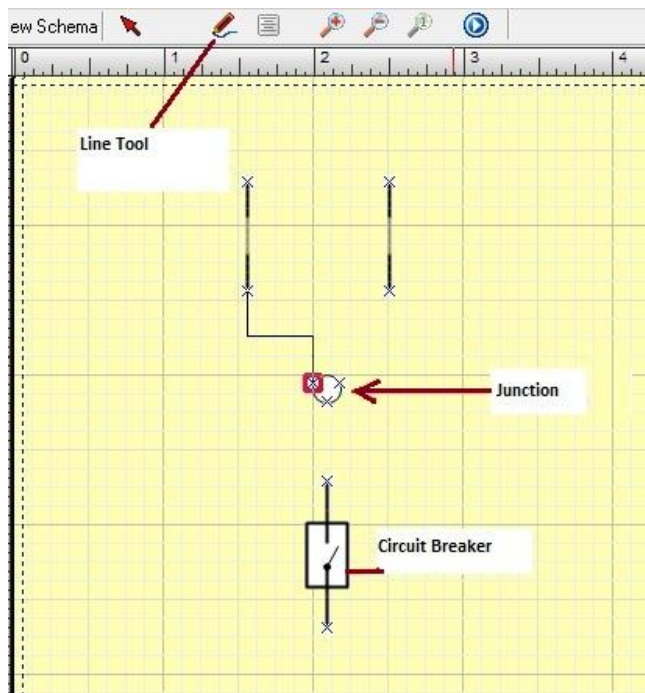


When you add a Switch to the schema, it will show up as open (non-conducting). You can change the status to close from the menu that shows up when you click on the arrow on the right side of the switch. The status of the switch can be changed only when the program is in monitoring mode. This change will only be graphical; it will not control the switch's physical status on the field.

Junction:

Junction is the joining element that joins two switches and it ensures that when one of the switches is opened the other one is closed. Junction has three connection points as one output and two inputs.

The connection points are shown as (X) on the screenshot below. The elements are connected through these points using the line tool.



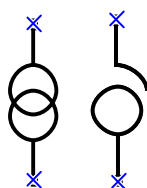
Like every other drawing element in the program, you can adjust the size of the JUNCTION too (**With Shift+Arrow keys**). Draw the lines according to the current flow. For example: **1. Point JUNCTION, 2. Point CIRCUIT BREAKER**

Circuit Breaker:

It is the drawing element seen in the screenshot above. It is usually connected to the schema after a junction. It doesn't have any status options like switch.

Transformers:

Transformers have two connection points as seen in the screenshot below and don't have status options like switch.



RTU:

RG312CS-Sul	
VLN1	166,7 V
VLN2	166,5 V
VLN3	166,6 V
ILN1	80 A
ILN2	68 A
ILN3	70 A

When you drag and drop the RTU element to the schema area, you will see a window seen on the screenshot below. On this window; you can set options like the analyzer from which the data will be received, the parameters to be read from the device and the labels of these parameters. These settings are saved with the schema file. You can save the schema that you designed by clicking on the **“Save Schema”** button on the screen and selecting the target folder **C:\TMizleme\Data\Gfiles**.

For example: **C:\TMizleme\Data\Gfiles\154 KV _1.xdg**.

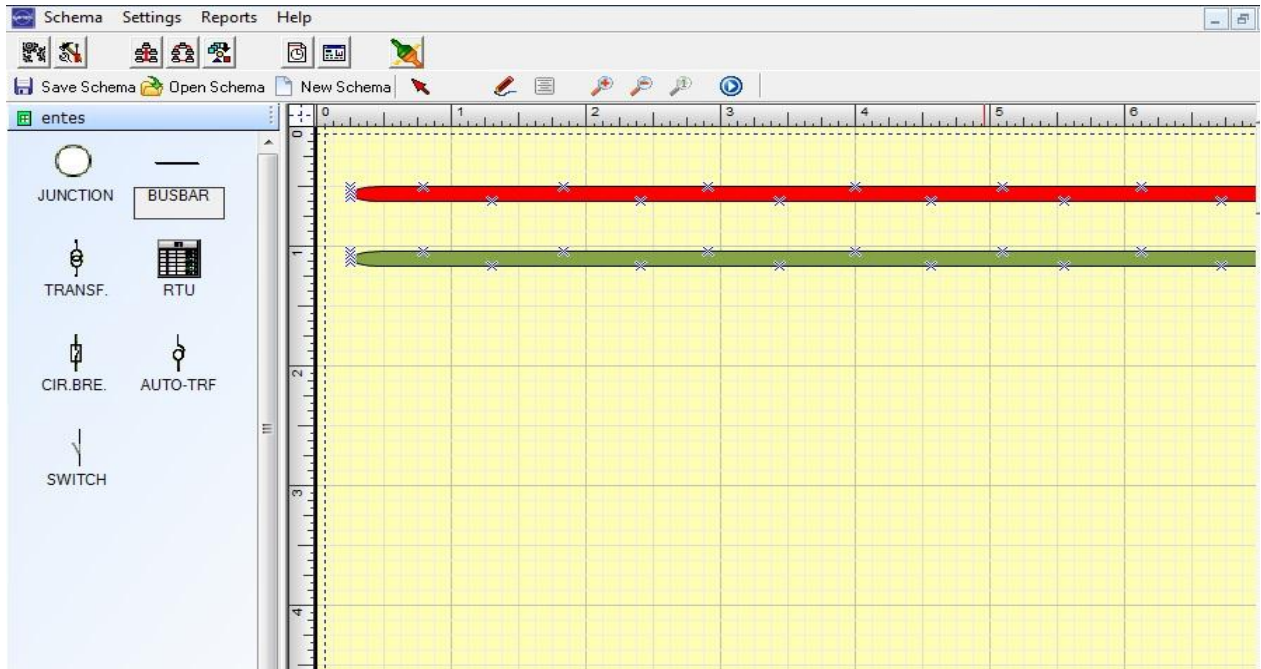
You can select maximum 6 parameters to read from the analyzer.



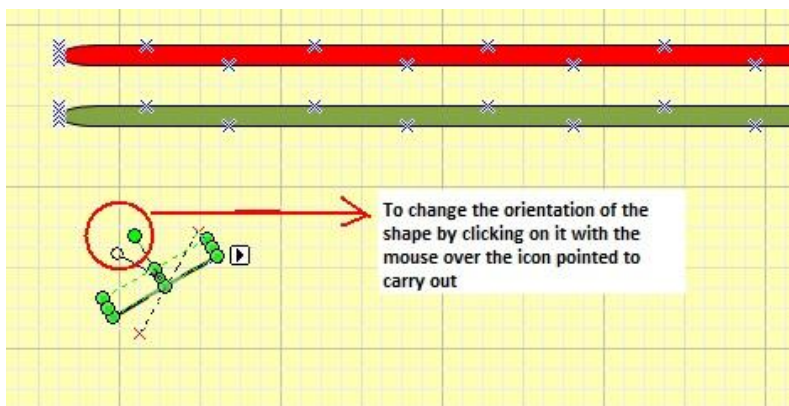
You can add more than one RTU element belonging to the same analyzer to the schema and display different parameters on each of them.

Drawing a Schema Example:

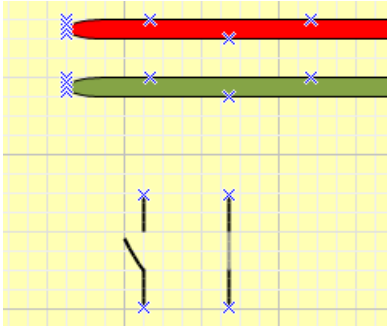
- 1) To begin drawing a schema example, click on the **Design** option under **Schema** menu.



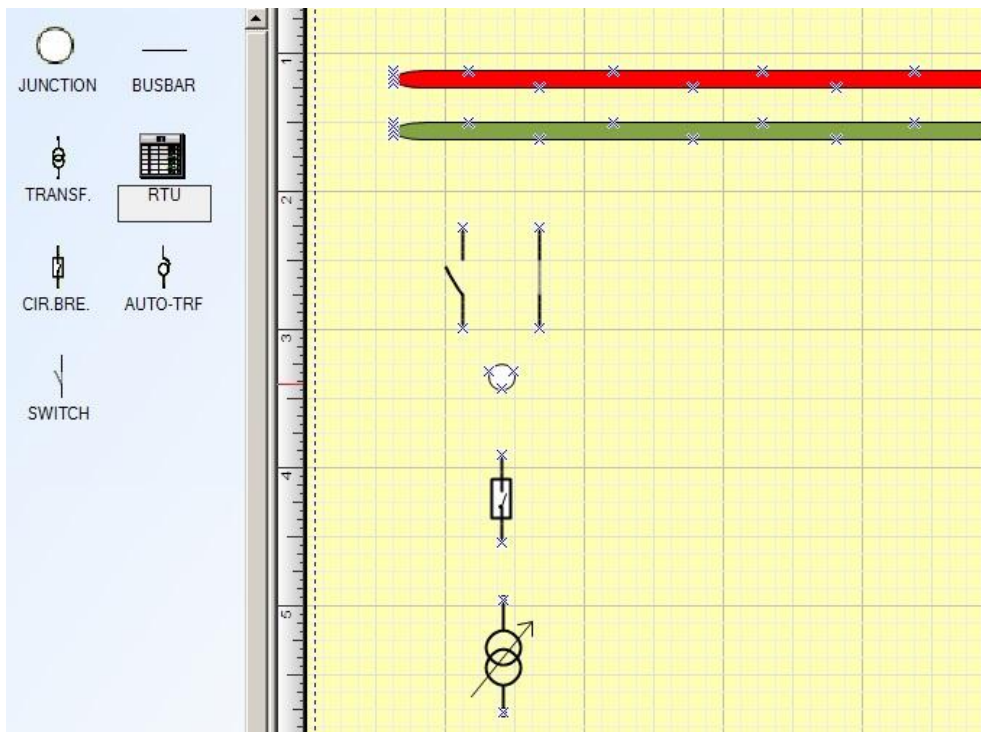
- 2) **Add** two bus bars to your schema. Adjust their colors differently using the menu that shows up when you click the arrow on the right side of the component.



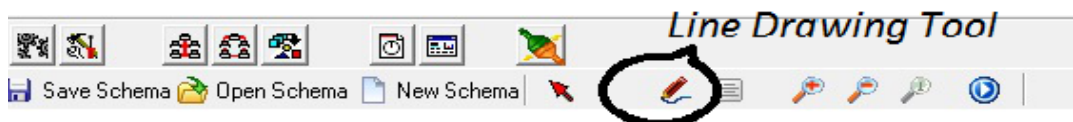
When you add a switch to the schema, it will be parallel to the bus bars. You can adjust the switch perpendicular to the bus bars by following the instructions on the screenshot above.



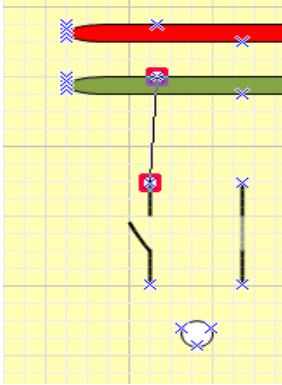
- 3) Add a second switch and position it like the first one.
- 4) Add junction, circuit breaker, transformer elements in that order to the schema.



Two methods exist to connect these elements with a line.

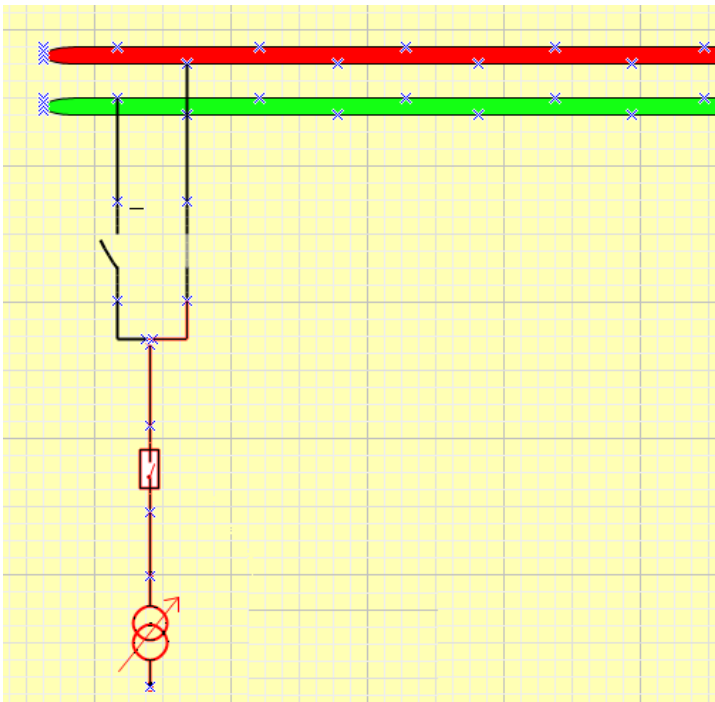


- 5) By using the aforementioned "Line Drawing Tool" or by approaching the connection point (X) with the mouse cursor the mouse cursor will turn into a hand icon with its index finger is pointed sideways. If you click on the connection point with the mouse in this condition, you will start drawing a line.

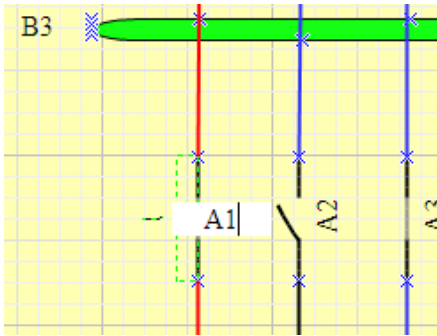


- 6) You can adjust the positions of the elements and the lines by moving them in the window to make the schema look straight. If you move an element that is connected with a line, the line will move with the element. In other words, the connection lines will not break while moving the connected elements.

Note: While connecting junction and circuit breaker elements together, use the “**Line Drawing Tool**” which is mentioned above.

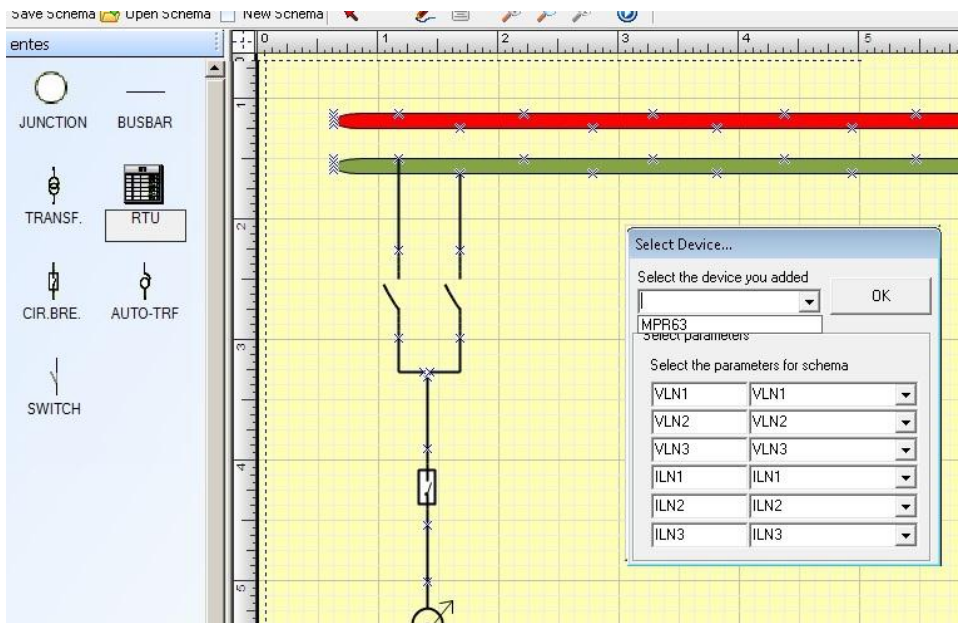


- 7) After you connected all the elements like on the screenshot above, decrease the size of the junction element to a more reasonable one.



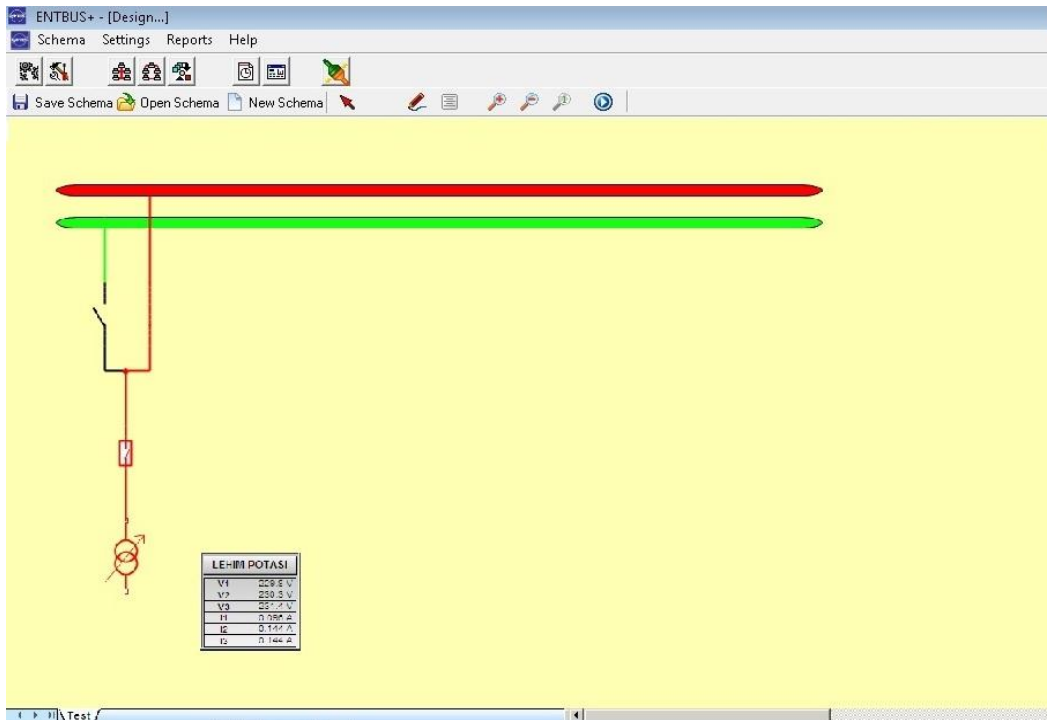
- 8) When you double click on the elements in the schema, a textbox in which you can write an explanation appears. Finally, add the RTU element that represents the analyzer on the field from which we will read the parameters.

Note: Before adding the RTU element, at least one communicating RTU must be defined in the program. To ensure the analyzer that you defined is properly communicating, check if the values are changing in the “Monitoring Instantaneous Values” monitoring window.



After you add the RTU element, choose the analyzer it represents from the menu that appears (as seen on the screenshot above). After you selected the parameters that you want displayed, save the schema that you created by clicking on the “Save Schema” button on the top left side of the window.

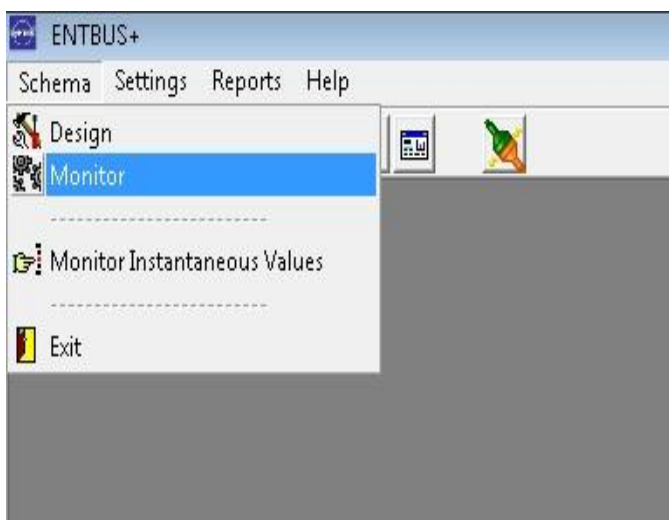
You can review the schematics that you created and saved from the Monitoring option under the Schema menu and you can simulate them by clicking on the “Run” (⏮) button in the design menu.



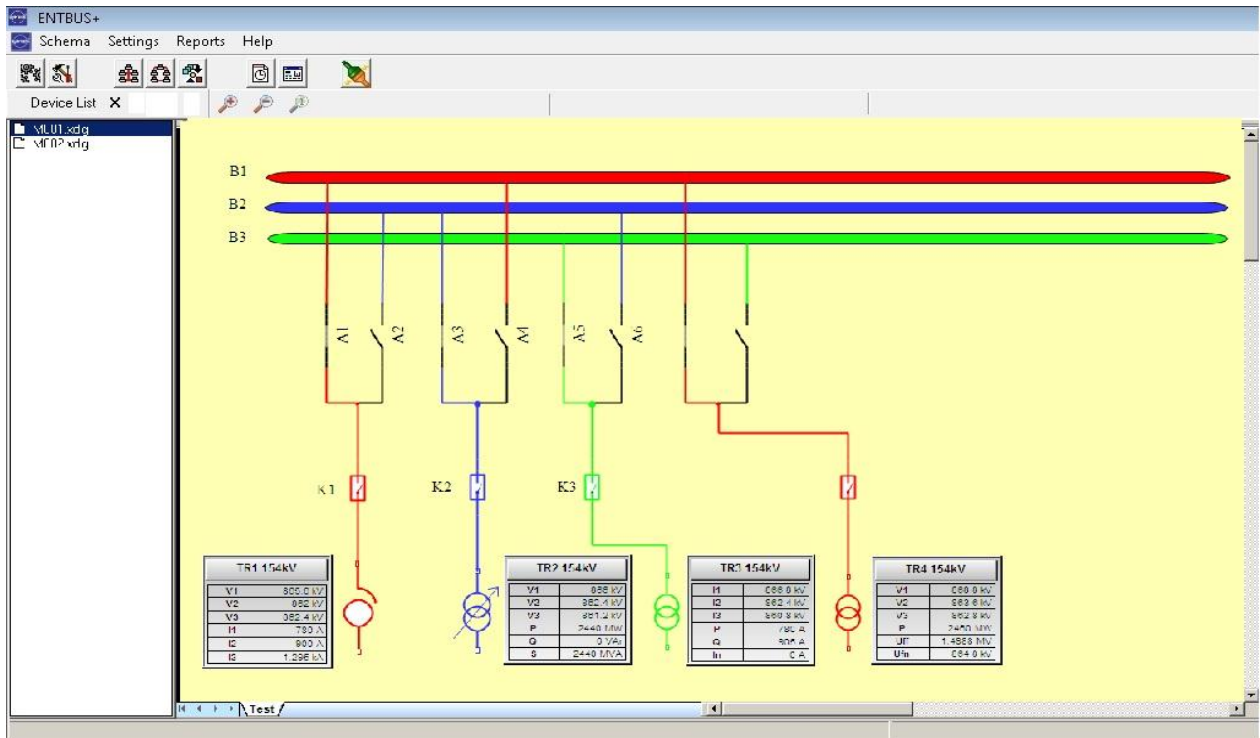
When you run the simulation, the displayed values of the RTU elements will change and show the values that are received from the field. Additionally, you can visually change the status of the switches by clicking. The color of the line will change to the color of the bus bar that it is connected to.

Monitoring Schemas:

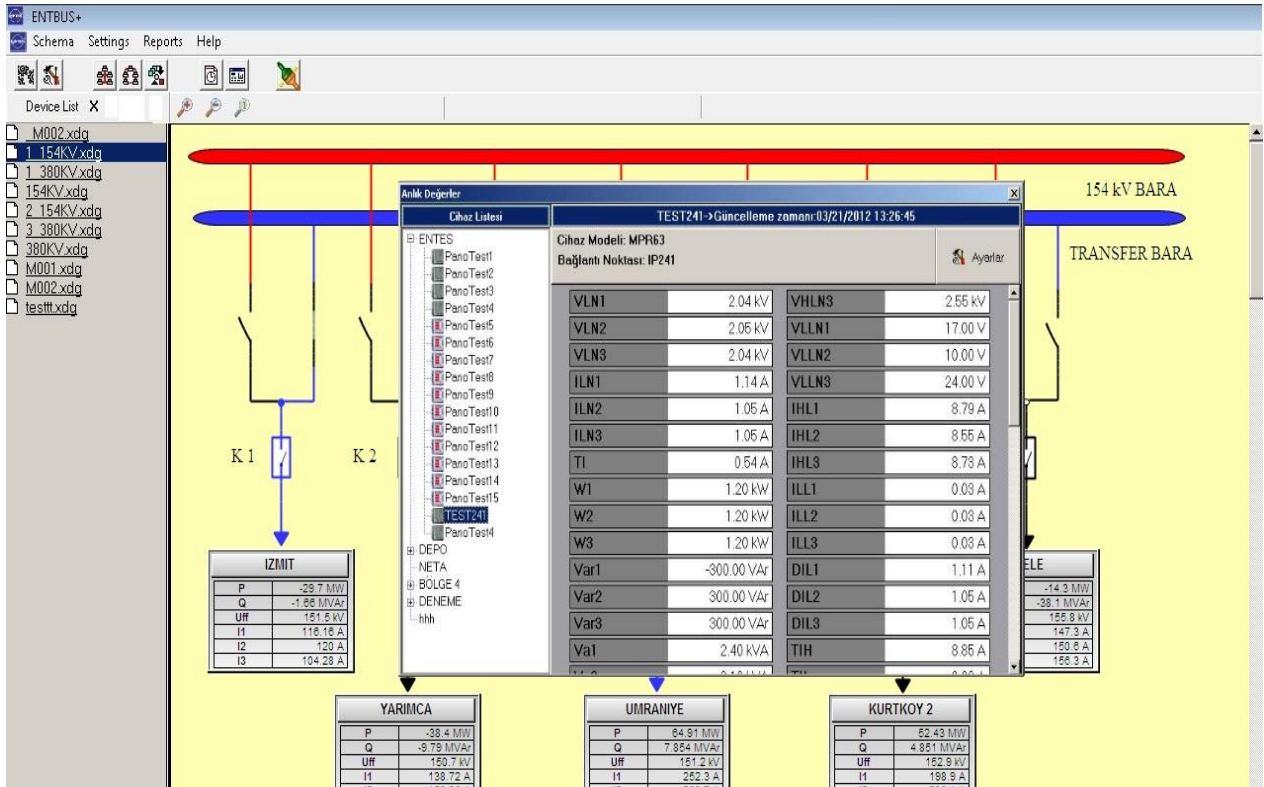
Schema monitoring screen is opened by clicking on the **Schema → Monitor** menu.



Previously designed mimic schematics will be listed on the left side of the screen. You can open the desired schema by clicking on it. If there is an RTU on the schematic, you will see its values change.



When you click on switches on the schema, the coupled switch that is feeding the same line will change its position. The color of the line will be the same as closed (conducting) switch. The color of the line from the open (non-conducting) switch to the junction will be black.



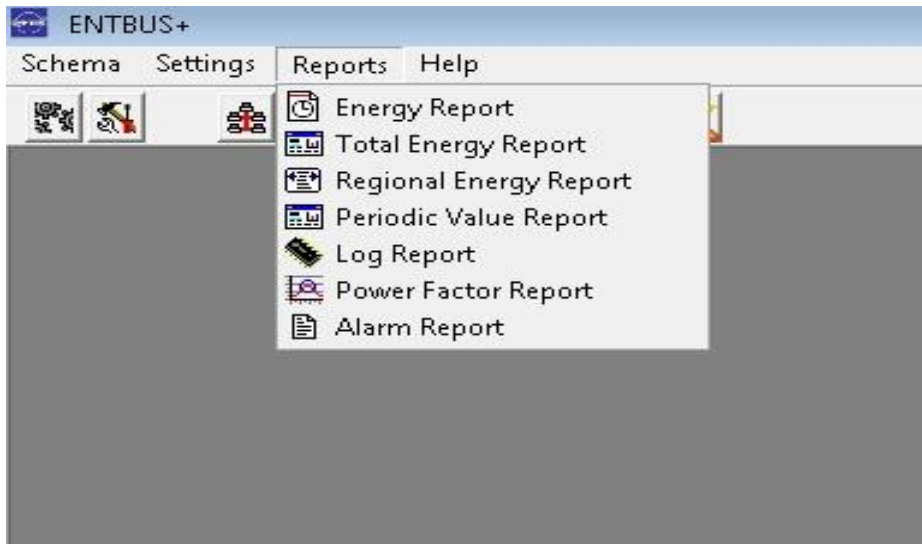
When you click on an RTU while you are on the monitoring screen, a detail window on which all the parameters for that analyzer is listed will show up.

If there is no communication for the analyzers, the color for RTU element on the schema will turn red and the “**No Response**” error notification will show up. When the connection error is resolved, the color will return to normal and the values will be updated.

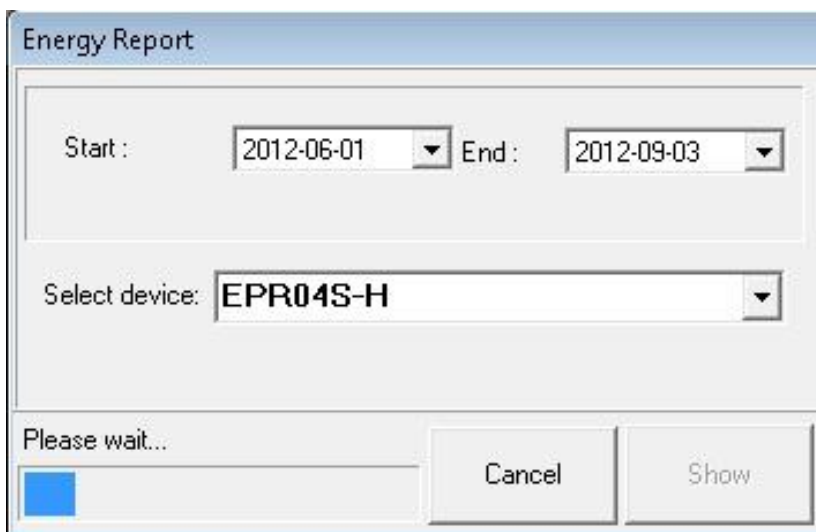
Reports:

When you click on the Reports menu from the main menu; **Energy, Total Energy, Regional Energy, Periodic Value, Log, Power Factor** and **Alarm** report options will be displayed in that order.

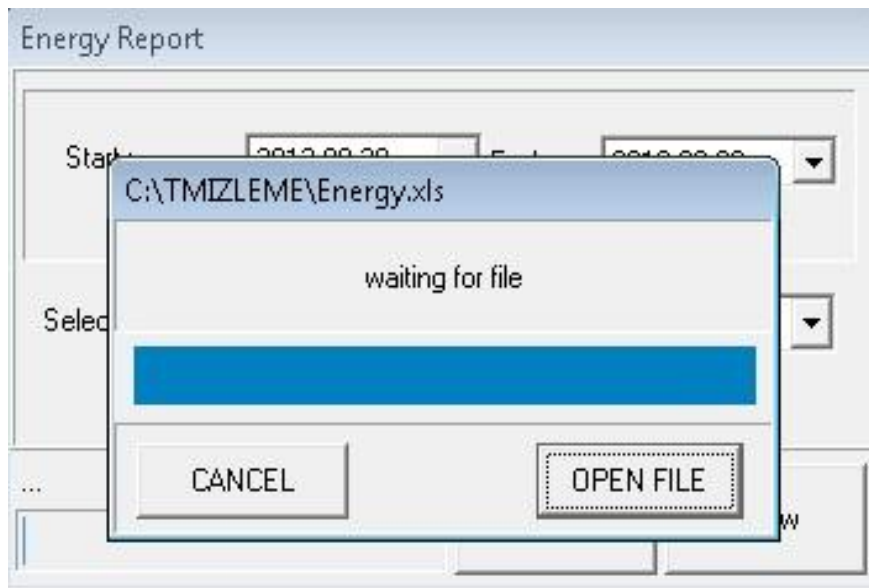
Program exports the report data in XLS format. So when you create a report, it will be opened automatically with the appointed software on your PC (OpenOffice, MS Excel, LibreOffice, etc.). You have to have a spreadsheet application like the ones mentioned before installed on your PC to view reports created by Entbus+.



When you request a report from the program; the entserver module that you are connected to will receive your request, collect the data between the determined date or date range from the database and creates the report in XLS file format. Meanwhile, the progress bar that is shown on the screenshot below will progress.



As soon as the creating process finishes, the program will start to download the report file from the entserver module. You can open the downloaded file by clicking on the **OPEN** button or you can discard the operation by clicking on the **CANCEL** button.

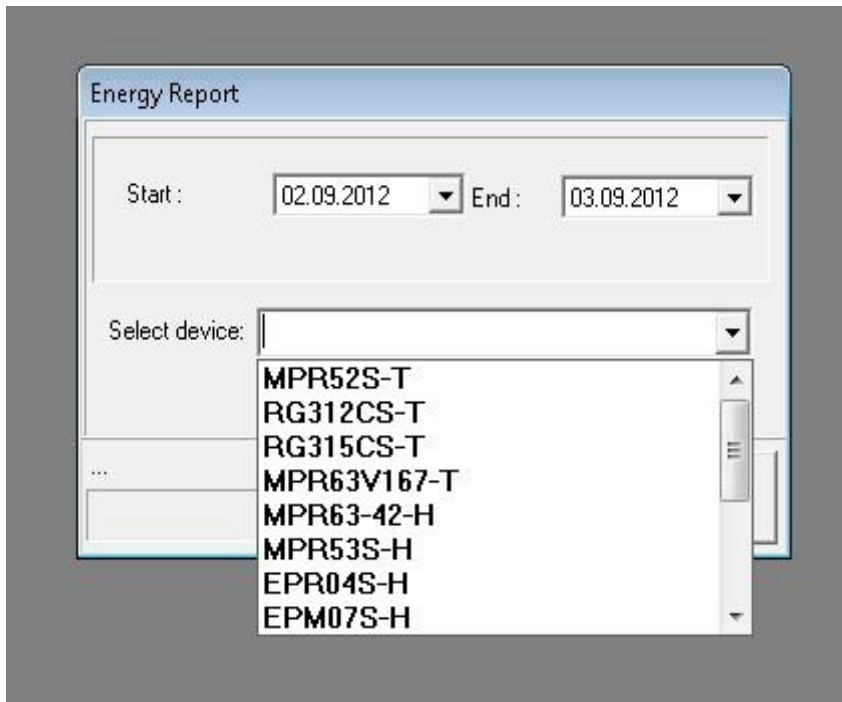


When the connection is bad or a disconnection occurs, **“reporting is aborted because of the delay”** warning message will be shown. In this case, restart the program and try to download the report again.

Energy Report:

Energy report is created **hourly, daily** and **monthly** for every Analyzer connected to the system. This differentiation is achieved by setting the date range. If you set the date range for a day, the created report will be hourly. If you set the date range between 1 day and 30 days, the created report will be daily. If you set the date range for more than 30 days, the created report will be monthly.

If you don't choose an Analyzer before creating the energy report, the report will be created for every analyzer. In this case, parameters for each Analyzer will be saved into a separate sheet in the XLS file.

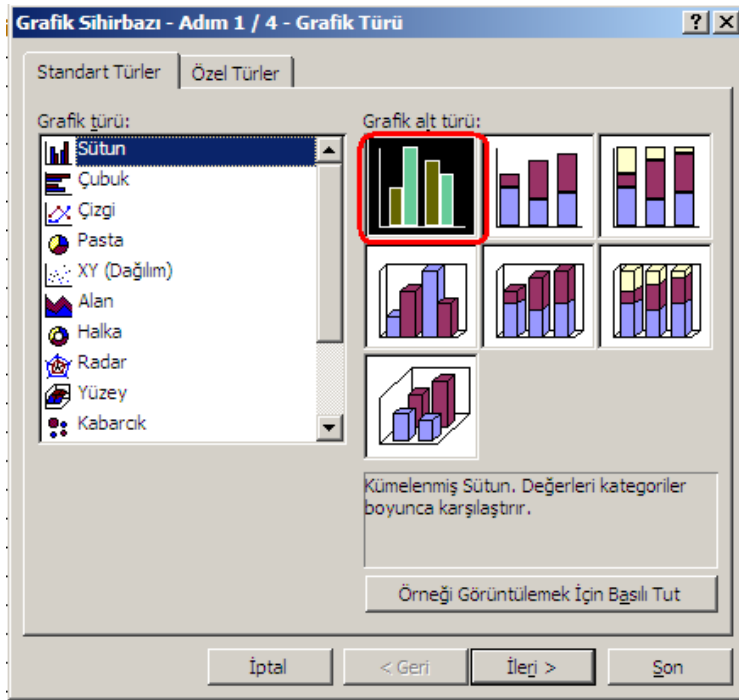


The listed energy values are the cumulative difference between the two time borders.

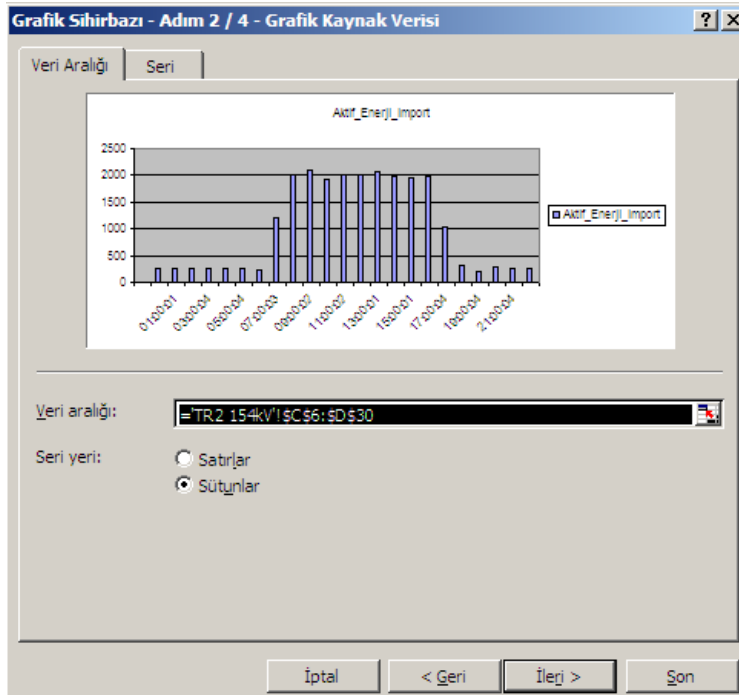
To create a graph of the energy report, you can use the Chart tools available in the spreadsheet application available on your PC. In this example, we will use MS Excel. To do this in MS Excel, select the values that you want to see on the chart and click on the Chart Wizard button.

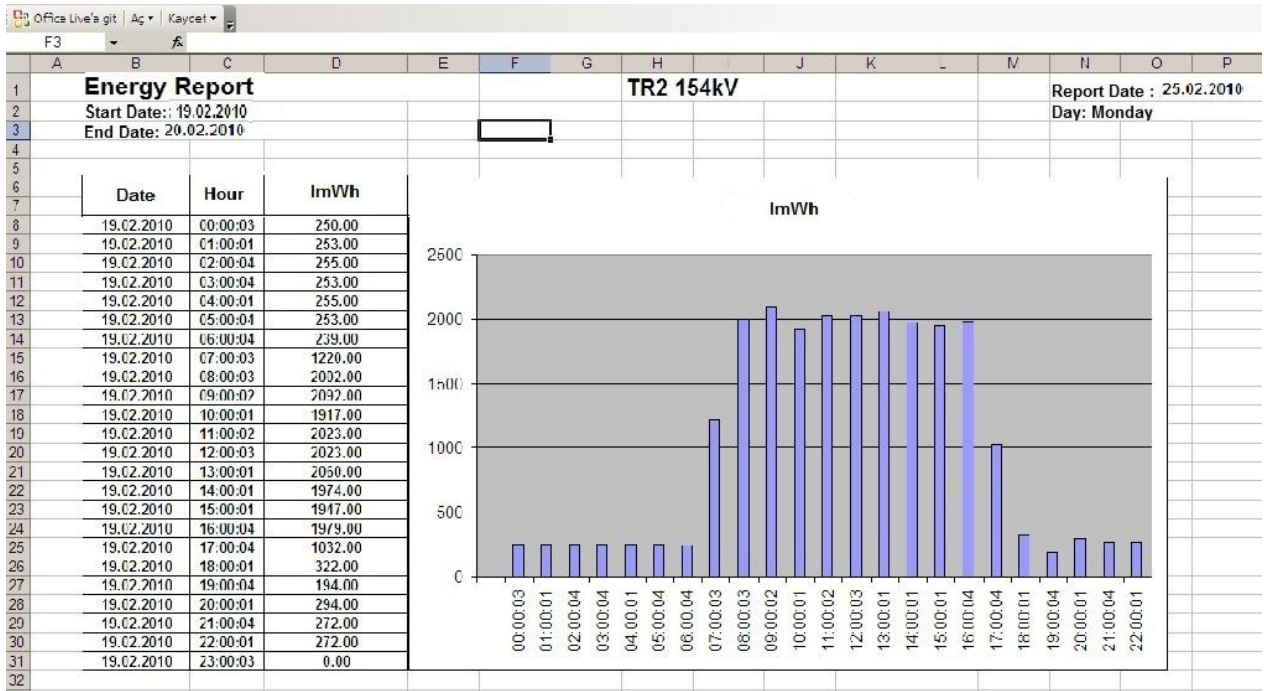
Energy Report							MPR63-42-Sul				Report Date : 03.09.2012	
Start Date: 30.08.2012											Day: Monday	
End Date: 04.09.2012												
Date	Hour	ImWh	ExWh	IndVArh	CapVArh							
18.03.2012	00:00:00	16000,00	0,00	0,00	6000,00							
18.03.2012	01:00:00	16000,00	0,00	0,00	5000,00							
18.03.2012	02:00:00	16000,00	0,00	0,00	6000,00							
18.03.2012	03:00:00	17000,00	0,00	0,00	5000,00							
18.03.2012	04:00:00	16000,00	0,00	0,00	6000,00							
18.03.2012	05:00:00	16000,00	0,00	0,00	5000,00							
18.03.2012	06:00:00	16000,00	0,00	0,00	5000,00							
18.03.2012	07:00:00	16000,00	0,00	0,00	6000,00							
18.03.2012	08:00:00	16000,00	0,00	0,00	5000,00							
18.03.2012	09:00:00	16000,00	0,00	0,00	6000,00							
18.03.2012	10:00:00	16000,00	0,00	0,00	4000,00							
18.03.2012	11:00:00	16000,00	0,00	0,00	5000,00							
18.03.2012	12:00:00	16000,00	0,00	0,00	5000,00							
18.03.2012	13:00:00	16000,00	0,00	0,00	5000,00							
18.03.2012	14:00:00	16000,00	0,00	0,00	5000,00							
18.03.2012	15:00:00	16000,00	0,00	0,00	5000,00							
18.03.2012	16:00:00	16000,00	0,00	0,00	5000,00							

Choose your desired chart type from the list.



When you click on the “**Finish**” button shown on the screenshot below, your chart will be created.





To save the chart that you created to your computer with a different name, you can click on the Save As button under File menu in Excel.

Total Energy Report:

Total Energy Report must be selected as the report type. You must select the start and end dates for the report on the displayed screen and click on “**Show**” button.

Total Energy Report

Start : 02.09.2012 End : 03.09.2012

Select devices (max 32)

- MPR52S-T
- RG312CS-T
- RG315CS-T
- MPR63V167-T
- MPR63-42-H
- MPR53S-H
- EPR04S-H
- EPM07S-H
- MPR52S-H
- MPR60S-H
- EPR04S-H
- RG312CS-H
- MPR63-42-Sul
- MPR53S-Sul

... Cancel Show

In this report type, all total energy parameter values for one or more selected analyzers are displayed between the set dates.

Device Name	Start Date	End Date	Start Wh Import	Wh Export	Varh Induct	Varh Capac	Wh Import	Wh Export	Varh Induct	Varh Capac	Wh Import	Wh Export	Varh Induct	Varh Capac
RG312CS-T	29.08.2012	03.09.2012 11:12:00	209	50	0	78507	263	56	0	103044	54	6	0	24537
MPR63-42-H	03.09.2012 08:10:00	03.09.2012 11:18:00	0	0	0	0	368000	4000	0	1000	368000	4000	0	1000
MPR53S-H	29.08.2012	03.09.2012 11:18:00	0	0	0	0	0	0	0	0	0	0	0	0

Regional Energy Report

In this report type, all total energy parameter values are displayed between two desired dates for a selected region.

Device	kWh import	kWh export	Varh induct	Varh capac
MPR52S-T	0	0	0	0
RG312CS-T	2	0	0	909
RG315CS-T	7	2	0	1815
MPR63V167-T	0	0	0	1000
MPR63-42-H	368000	4000	0	1000
MPR53S-H	0	0	0	0
EPR04S-H	1469	0	2	0
EPR07S-H	158493	0	40	109
MPR52S-H	4	0	0	0
MPR60S-H	368000	4000	0	1000
RG312CS-H	0	3654	24	0
MPR63-42-Sul	0	0	0	0
MPR53S-Sul	46	0	0	3
RG312CS-Sul	1140	0	0	96

Periodical Values Report:

In this report type, all periodical value parameters of a selected device are displayed for a selected time range.

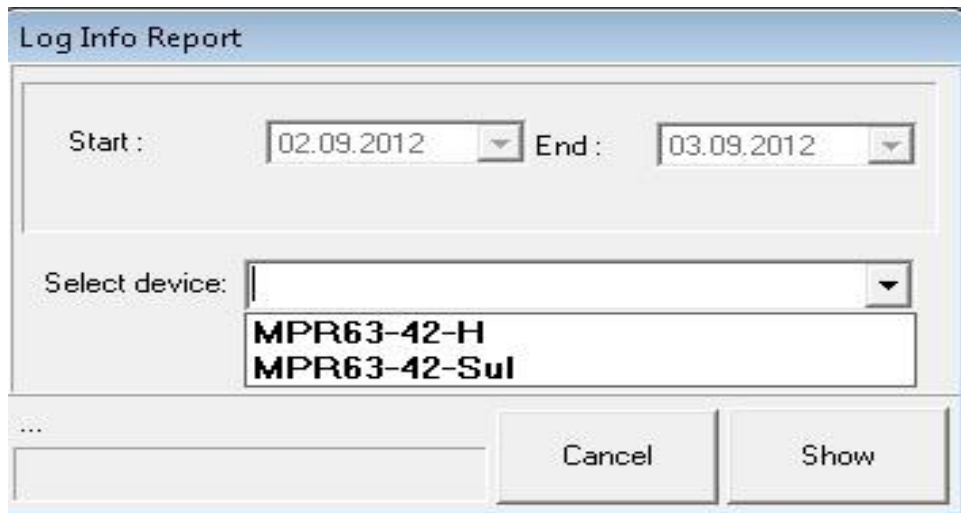
An “**All Parameters**” report can only be created for a single Analyzer and for one day. Almost all parameters measured by the Analyzer are listed in this report. The information created according to “**Data Read Interval**” will be listed in this report. This interval is set in the **EntServer** program.

Periodic Value Report																TEST		
Tarih	Saat	VLN1	VLN2	VLN3	ILN1	ILN2	ILN3	TI	W1	W2	W3	Var1	Var2	Var3				
19.03.2012	00:02:00	6375,00	6372,00	6366,00	1,90	1,80	1,80	0,90	6000,00	6000,00	6000,00	-1500,00	-1500,00	-1500,00				
19.03.2012	00:04:00	6393,00	6387,00	6387,00	1,90	1,80	1,80	0,90	6000,00	6000,00	6000,00	-1500,00	-1500,00	-1500,00				
19.03.2012	00:06:00	6387,00	6387,00	6384,00	1,90	1,80	1,80	0,90	6000,00	6000,00	6000,00	-1500,00	-1500,00	-1500,00				
19.03.2012	00:08:00	6402,00	6402,00	6402,00	1,90	1,80	1,75	0,90	6000,00	6000,00	6000,00	-1500,00	-1500,00	-1500,00				
19.03.2012	00:10:00	6396,00	6393,00	6390,00	1,90	1,80	1,75	0,90	6000,00	6000,00	6000,00	-1500,00	-1500,00	-1500,00				
19.03.2012	00:12:00	6390,00	6390,00	6387,00	1,90	1,80	1,80	0,90	6000,00	6000,00	6000,00	-1500,00	-1500,00	-1500,00				
19.03.2012	00:14:00	6393,00	6390,00	6387,00	1,90	1,80	1,75	0,90	6000,00	4500,00	4500,00	-1500,00	-1500,00	-1500,00				
19.03.2012	00:16:00	6396,00	6393,00	6390,00	1,90	1,80	1,80	0,90	6000,00	6000,00	4500,00	-1500,00	-1500,00	-1500,00				
19.03.2012	00:18:00	6393,00	6387,00	6384,00	1,90	1,80	1,75	0,90	6000,00	6000,00	6000,00	-1500,00	-1500,00	-1500,00				
19.03.2012	00:20:00	6390,00	6384,00	6384,00	1,90	1,80	1,80	0,90	6000,00	6000,00	6000,00	-1500,00	-1500,00	-1500,00				
19.03.2012	00:22:00	6387,00	6384,00	6378,00	1,95	1,80	1,80	0,90	6000,00	6000,00	6000,00	-1500,00	-1500,00	-1500,00				
19.03.2012	00:24:00	6381,00	6375,00	6375,00	1,90	1,80	1,80	0,90	6000,00	6000,00	6000,00	-1500,00	-1500,00	-1500,00				
19.03.2012	00:26:00	6387,00	6378,00	6375,00	1,90	1,80	1,80	0,90	6000,00	6000,00	6000,00	-1500,00	-1500,00	-1500,00				
19.03.2012	00:28:00	6402,00	6399,00	6396,00	1,90	1,80	1,80	0,90	6000,00	6000,00	6000,00	-1500,00	-1500,00	-1500,00				
19.03.2012	00:30:00	6405,00	6402,00	6399,00	1,85	1,75	1,70	0,90	6000,00	6000,00	4500,00	-1500,00	-1500,00	-1500,00				
19.03.2012	00:32:00	6408,00	6402,00	6402,00	1,90	1,80	1,75	0,90	6000,00	6000,00	6000,00	-1500,00	-1500,00	-1500,00				

Log Report

In this report type, saved log parameter values of a selected device between two desired dates are listed.

A device is selected from the device list menu and the report is created.

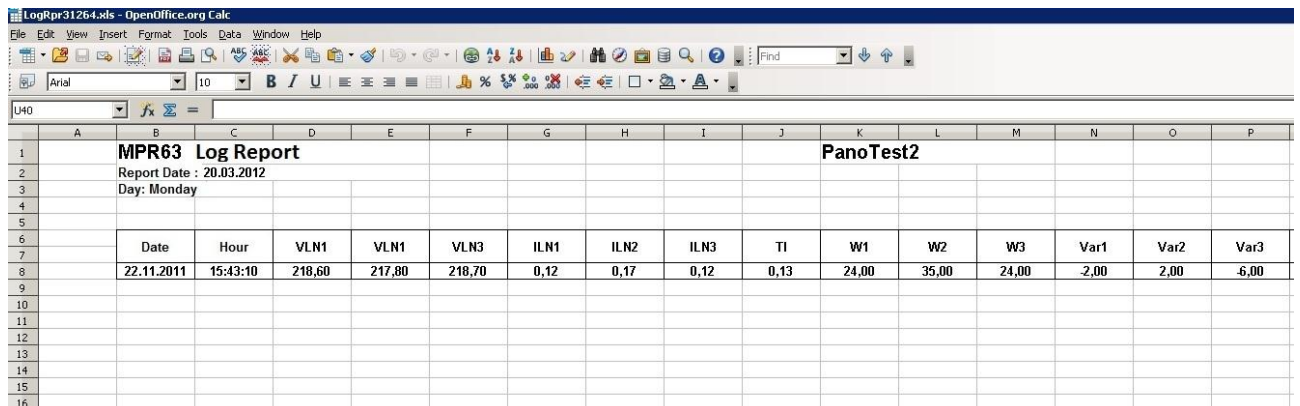


Log Info Report

Start : 02.09.2012 End : 03.09.2012

Select device: MPR63-42-H
MPR63-42-Sul

Cancel Show



Date	Hour	VLN1	VLN2	VLN3	ILN1	ILN2	ILN3	TI	W1	W2	W3	Var1	Var2	Var3
22.11.2011	15:43:10	218,60	217,80	218,70	0,12	0,17	0,12	0,13	24,00	35,00	24,00	-2,00	2,00	-6,00

Power Factor Report

In this report type, all reactive power compensation values of a selected device are listed between a selected time range.

Power Factor Report

Start: End:

Select device:

...

KompRpr55163.xls - OpenOffice.org Calc

File Edit View Insert Format Tools Data Window Help

Arial 10 B / U

T42

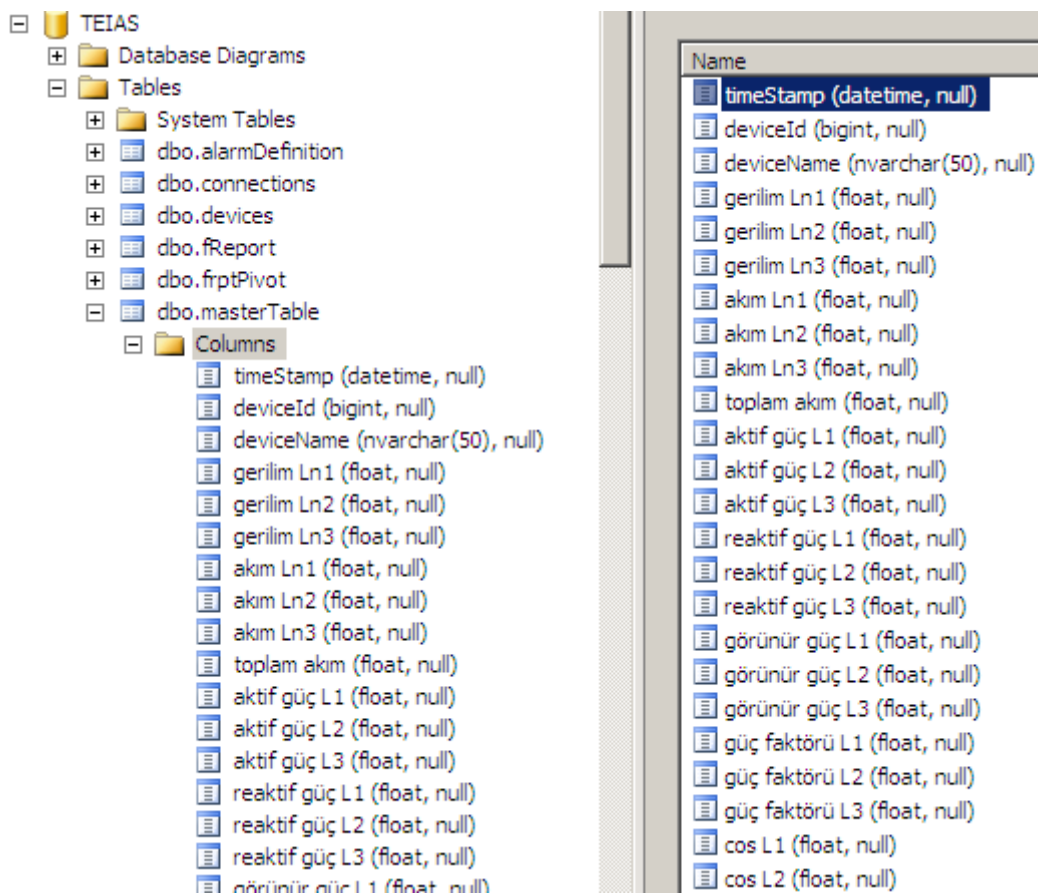
	A	B	C	D	E	F	G	H
1		Power Factor Report						PanoTest2
2		Start Date: 19.03.2012						
3		End Date: 20.03.2012						
4								
5								
6		Date	Hour	ImWh	ExWh	IndVArh	CapVArh	
7		--:--	--:--	0,00	0,00	0,00	0,00	
8		--:--	--:--	0,00	0,00	0,00	0,00	
9		--:--	--:--	0,00	0,00	0,00	0,00	
10		--:--	--:--	0,00	0,00	0,00	0,00	
11		--:--	--:--	0,00	0,00	0,00	0,00	
12		19.03.2012	04:00:00	0,00	0,00	0,00	0,00	
13		19.03.2012	05:00:00	1000,00	0,00	0,00	0,00	
14		19.03.2012	06:00:00	0,00	0,00	0,00	0,00	
15		19.03.2012	07:00:00	0,00	0,00	0,00	0,00	
16		19.03.2012	08:00:00	3000,00	0,00	0,00	0,00	
17		19.03.2012	09:00:00	2000,00	0,00	0,00	0,00	
18		19.03.2012	10:00:00	2000,00	0,00	0,00	0,00	
19		19.03.2012	11:00:00	0,00	0,00	0,00	0,00	
20		--:--	--:--	0,00	0,00	0,00	0,00	
21		19.03.2012	13:00:00	0,00	0,00	0,00	0,00	
22		--:--	--:--	0,00	0,00	0,00	0,00	
23		--:--	--:--	0,00	0,00	0,00	0,00	
24		--:--	--:--	0,00	0,00	0,00	0,00	

DATA STRUCTURES: (Notes towards the programmers)

EntServer service application will save the data that it received from the field from the minute it started to run to the TEIAS database under the SQL server instance named TEIAS2010. To access to the database, use “sa” as username and “1763” as password.

Tables and their functions in the database:

dbo.masterTable: The values in this table are the values that are saved according to the “**Data Read Interval**”. Nearly all the parameters of an Analyzer are saved to this table.



The screenshot displays the SQL Server Enterprise Manager interface for the TEIAS database. The left-hand pane shows the database structure, including the following tables and columns:

- TEIAS
 - Database Diagrams
 - Tables
 - System Tables
 - dbo.alarmDefinition
 - dbo.connections
 - dbo.devices
 - dbo.fReport
 - dbo.frptPivot
 - dbo.masterTable
 - Columns
 - timeStamp (datetime, null)
 - deviceId (bigint, null)
 - deviceName (nvarchar(50), null)
 - gerilim Ln1 (float, null)
 - gerilim Ln2 (float, null)
 - gerilim Ln3 (float, null)
 - akim Ln1 (float, null)
 - akim Ln2 (float, null)
 - akim Ln3 (float, null)
 - toplam akim (float, null)
 - aktif güç L1 (float, null)
 - aktif güç L2 (float, null)
 - aktif güç L3 (float, null)
 - reaktif güç L1 (float, null)
 - reaktif güç L2 (float, null)
 - reaktif güç L3 (float, null)
 - görünür güç L1 (float, null)
 - görünür güç L2 (float, null)
 - görünür güç L3 (float, null)
 - güç faktörü L1 (float, null)
 - güç faktörü L2 (float, null)
 - güç faktörü L3 (float, null)
 - cos L1 (float, null)
 - cos L2 (float, null)

The data type for the columns except the first three is float.

dbo.fReport Table:

Resource data for the hourly energy values, facility reports and energy reports is saved to this table. Again, the data type for the columns except the first three is float.

Name
date (datetime, null)
hour (smallint, null)
devId (bigint, null)
devName (nvarchar(50), null)
Watt (float, null)
VAr (float, null)
V (float, null)
A (float, null)
Aktif_Enerji_import (float, null)
Aktif_Enerji_export (float, null)
reAktif_Enerji_Ind (float, null)
reAktif_Enerji_Cap (float, null)

Entbus+ Web module

entbus⁺ Web Interface

Dil / Language  English ▼

User Login

Username *

Password *

 [Forgot my password!](#)



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The User Name: admin

Password: 1234

Information must be entered on the first launch.

In case the user forgets the password, “**Forgot my password**” link is used.

[Forgot my password](#)

entbus⁺

Web Interface

Dil / Language  English ▼

User Password Recovery

Username

E-mail Address

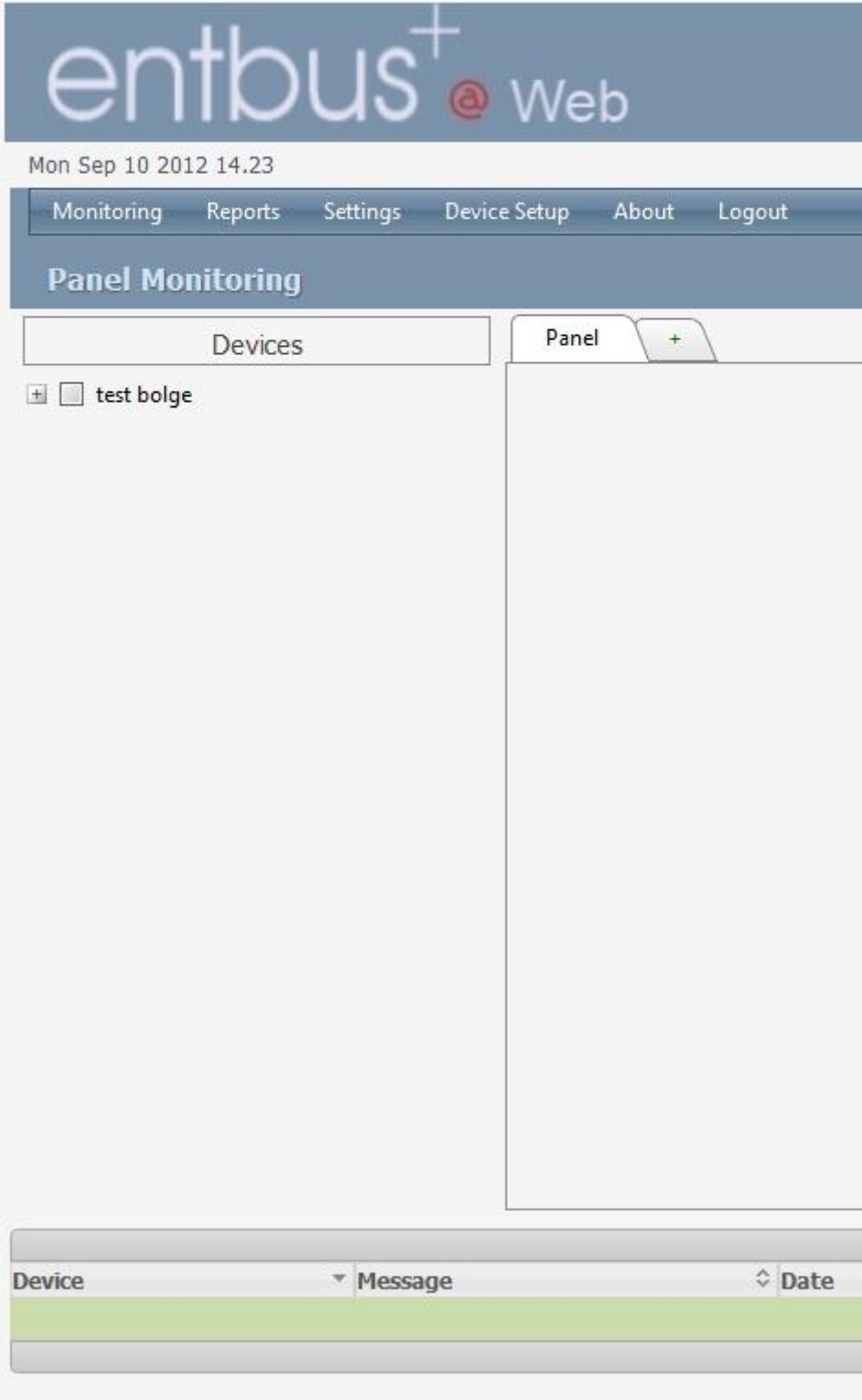
[◀ Back](#)

Username and e-mail address information is entered to the screen above.

If the username matches the e-mail address saved on the system, the corresponding username and password associated with that e-mail address is sent.

Panel Monitoring

After you logged in to the system, “**Panel Monitoring**” page is displayed. Since no device is selected by clicking its corresponding box, no device will be displayed for the first time.



Settings

You can define connection points and get information about devices in connected regions from the “**Settings**” menu.



Users

You can create users with different authorization levels in this menu.

“**Users**” is selected from the “**Settings**” menu. Afterwards, click on “**Add new user**” button.

entbus⁺ @ Web

Mon Sep 10 2012 14:42

Monitoring Reports Settings Device Setup About Logout

Users

You must restart server for the changes to take effect.
[Click to restart](#)

Add new user

Username	Password
Username:	<input type="text"/>
Password:	<input type="password"/>
E-mail Address:	<input type="text"/>
User Role:	Administrator ▼

	admin	*****
	tolga	*****

Username: Name for the new user

Password: Password for the new user

E-mail Address: E-mail address for the new user

User role: 0 (It is zero by default. Indicates the authorization level)

Connection Points

It is the selected connection name when adding an analyzer. Application recognizes the Ethernet converter defined on it by this name.

“**Connection Points**” is selected from the “**Settings**” menu.



entbus+ @ Web


Tue Sep 04 2012 10:35

Monitoring Reports Settings Device Setup About Logout

Connection Points

You must restart server for the changes to take effect.
[Click to restart](#)

Connection Name	IP Address	Timeout (ms)
Connection Name:	<input type="text"/>	
IP Address:	<input type="text"/>	
Timeout (ms):	<input type="text"/>	↕
Poll Delay (ms):	<input type="text"/>	↕
Port:	<input type="text"/>	↕

	Tolga Bey Masa	192.168.2.150	2000
	Test Masa	192.168.2.239	2000

After “**Add new connection point**” button is clicked, following information is entered.

Connection Name: The name for the new connection point.

IP Address: Network IP address

Timeout: Response time for the network in milliseconds (500 ms. is recommended)

Poll Delay: Reading interval according to the user starting from 1 second.

Port: TCP port (Standard modbus port is 502)

Regions

Regions are virtual structures in which the devices can be grouped according to the user.

“Regions” is selected from the “Settings” menu.

“Add new region” is clicked.



entbus+ @ Web

Tue Sep 04 2012 10.36

Monitoring Reports Settings Device Setup About Logout

Regions

You must restart server for the changes to take effect.
Click to restart

+ Add new region

	ID	Region Name
ID:	<input type="text"/>	
Region Name:	<input type="text"/>	
Number of Devices:	<input type="text" value="0"/>	

	1	Sarı Pazarı
---	---	-------------

Region Name: Name for the newly defined region.

After a region name has been given, the green icon is clicked. Thereby, a new region is created.

Devices

Parameters of the devices that are defined from this menu can be monitored by the user.

“Regions” is selected from the “Settings” menu.



entbus+ @ Web

Tue Sep 04 2012 10:38



Monitoring Reports Settings Device Setup About Logout

Devices

You must restart server for the changes to take effect.
[Click to restart](#)

+ Add new device

DeviceName	Device Model	Region Name
DeviceName:	<input type="text"/>	
Device Model:	MPR63	
Region Name:	Sali Pazari	
NAD:	<input type="text"/>	
Connection Point:	Tolga Bey Masa	

	EPR04S-H	EPR04S	Sali Pazari
	RG312CS-H	RG312CS	Sali Pazari

After “Add new device” button is clicked, following information is entered.

Device Name: Name for the new device.

Device Model: Device type is selected from the drop-down list.

Region Name: Region to connect is selected from the drop-down list.

NAD: A number between 0-256 is entered for the new device’s Modbus network address.

Connection Point: Related connection point is selected from the drop-down list.

Alarms

User can create alarms for different conditions with a notification window in the web browser or with an e-mail.

“Alarms” is selected from the “Settings” menu.

There are two types of alarm:

1) Set Point

The screenshot shows the 'entbus+ @ Web' interface. At the top, there is a navigation menu with 'Monitoring', 'Reports', 'Settings', 'Device Setup', 'About', and 'Logout'. Below the menu, the 'Alarms' section is active. A message reads: 'You must restart server for the changes to take effect. Click to restart'. The main form is titled 'Add new alarm' and contains the following fields:

Alarm Type	Device	Parameter	Set Point	Operator	In/Out Window
Alarm Type:	Device:	Parameter:	Set Point:	Operator:	
Set Point	MPR52S-T	Voltage LN1		<	
E-mail Address:					
Message:					

Alarm Type: “Set Point” is selected from the drop-down list.

Device: Device for which the alarm is set is selected from the drop-down list.

Parameter: Parameter to set the alarm for.

Set Point: Threshold value to set the alarm.

Operator: The situation which we want the alarm occur. It is based on the Set Point value. If we want to create an alarm when the monitored value rises above the set point value, > is selected. If we want to create an alarm when the monitored value falls below the set point value, < is selected.

E-mail Address: Mail address which will receive a message in case of an alarm.

Message: Alarm description which will be displayed on the alarm table, message window and e-mail content.

If “E-Mail Address” and “Message” fields are filled accordingly, user will be notified with an e-mail message at the entered e-mail address with the entered message in case an alarm occurs.

2) Window Alarm

entbus+ Web

Tue Sep 04 2012 10:39

Monitoring Reports Settings Device Setup About Logout

Alarms

You must restart server for the changes to take effect.
Click to restart:

+ Add new alarm

Alarm Type	Device	Parameter	Set Point	Operator	In/Out Window
Alarm Type:	Device:	Parameter:			
In/Out Window:	Min:	Max:			
E-mail Address:					
Message:					

✓ ✗

Alarm Type: “Window Alarm” is selected from the drop-down list.

Device: Device for which the alarm is set is selected from the drop-down list.

Parameter: Parameter to set the alarm for.

In/Out Window: If In is selected, an alarm is created when the monitored value is between min and max values. If Out is selected, an alarm is created when the monitored value is outside the range defined by min and max values.

Min: Minimum value for the monitored parameter.

Max: Maximum value for the monitored parameter.

E-mail Address: Mail address which will receive a message in case of an alarm.

Message: Alarm description which will be displayed on the alarm table, message window and e-mail content.

E-mail Account

“E-mail Account” is selected from the “Settings” menu.

SMTP server settings which are needed for sending e-mails about occurred alarms and forgotten passwords are done in this menu.



The screenshot shows the 'entbus+ @ Web' interface. At the top, it displays the date and time 'Tue Sep 04 2012 10.41'. Below this is a navigation menu with 'Monitoring', 'Reports', 'Settings', 'Device Setup', 'About', and 'Logout'. The main heading is 'E-mail Account'. A message states: 'You must restart server for the changes to take effect. Click to restart'. Below this are five input fields: 'Outgoing E-mail Server (SMTP)' with the value '212.58.2.63', 'Server Port' with a dropdown menu showing '587', 'E-mail Address' with 'tbozkurt@entes.com.tr', 'Username' with 'tbozkurt@entes.com.tr', and 'Password' with 'tb64kurt'. A 'Save' button is located at the bottom right of the form.

Outgoing E-mail Server: IP address of SMTP server

Server Port: Port address of SMTP server

E-Mail Address: Sender's e-mail address

Username: Sender's username for the entered e-mail account information.

Password: Sender's password for the entered e-mail account information.

Server

“Server” is selected from the “Settings” menu.

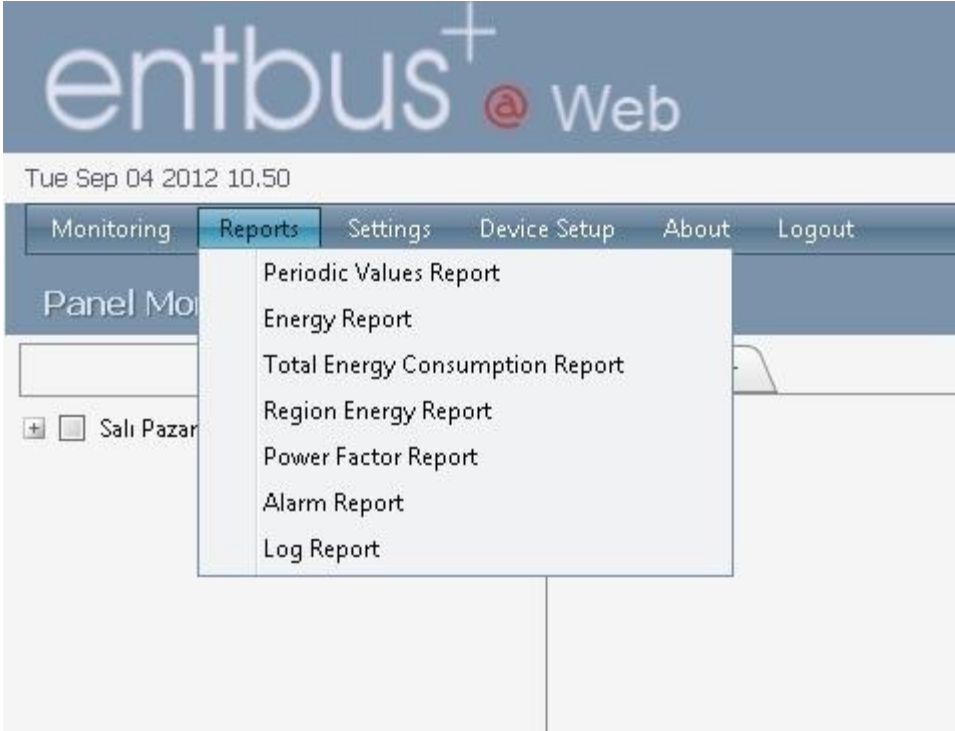
When a change has been made on the connection point, device or alarm screens, server has to be restarted. Server is restarted by clicking on the “Restart server” button.



The screenshot shows the 'entbus+ @ Web' interface. At the top, it displays the date and time 'Tue Sep 04 2012 10.48'. Below this is a navigation menu with 'Monitoring', 'Reports', 'Settings', 'Device Setup', 'About', and 'Logout'. The main heading is 'Server'. Below the heading, it shows 'Server Status: Running' in green text. At the bottom, there is a button with a gear icon and the text 'Restart server'.

Reports

Reports of monitored device values can be created in XLS format from this section.



Periodic Values Report

“**Periodic Values Report**” is selected from “**Reports**” menu.

In this report, all periodic parameter values are listed for a selected device in a defined time range.



The screenshot shows the 'entbus+ @ Web' interface. At the top, the date and time are 'Tue Sep 04 2012 10:53'. A navigation menu includes 'Monitoring', 'Reports', 'Settings', 'Device Setup', 'About', and 'Logout'. The main heading is 'Periodic Values Report'. Below this, there are three input fields: 'Start Date' with a value of '9/3/2012', 'End Date' with a value of '9/4/2012', and 'Device' with a dropdown menu showing 'MPR52S-T'. Each field has a small calendar icon to its right. At the bottom right, there is a green button with a plus sign and the text 'Download Report'.

Start date is selected from the calendar.

End date is selected from the calendar.

Desired device is selected from the drop-down list.

“**Download Report**” button is clicked.

The resulting report is displayed in XLS format.

Periodic Value Report													RG312CS-Sul		
Start Date: 8/28/2012															
End Date: 9/6/2012															
Date	Hour	VLN1	VLN2	VLN3	ILN1	ILN2	ILN3	W1	W2	W3	Var1	Var2	Var3		
8/28/2012	12:02:00 AM	175,20	175,00	175,00	1,00	0,83	0,88	82,50	70,00	72,50	-12,50	-12,50	-12,50		
8/28/2012	12:04:00 AM	175,00	174,70	174,70	1,00	0,83	0,90	85,00	67,50	75,00	-12,50	-12,50	-15,00		
8/28/2012	12:06:00 AM	175,20	175,00	175,00	1,00	0,85	0,90	85,00	70,00	72,50	-12,50	-12,50	-12,50		
8/28/2012	12:08:00 AM	175,00	174,70	174,70	1,00	0,88	0,90	82,50	67,50	70,00	-12,50	-12,50	-15,00		
8/28/2012	12:10:00 AM	175,30	175,00	175,10	1,00	0,88	0,93	85,00	70,00	75,00	-12,50	-12,50	-12,50		
8/28/2012	12:12:00 AM	175,20	174,90	175,00	1,03	0,85	0,93	85,00	70,00	75,00	-12,50	-10,00	-12,50		
8/28/2012	12:14:00 AM	175,10	174,80	175,00	1,00	0,88	0,93	85,00	70,00	75,00	-12,50	-10,00	-12,50		
8/28/2012	12:16:00 AM	175,40	175,00	175,10	1,00	0,85	0,93	82,50	67,50	72,50	-12,50	-12,50	-12,50		
8/28/2012	12:18:00 AM	175,20	174,80	175,00	1,00	0,85	0,90	87,50	72,50	75,00	-12,50	-10,00	-12,50		
8/28/2012	12:20:00 AM	175,10	174,70	174,90	1,03	0,88	0,93	85,00	72,50	75,00	-15,00	-12,50	-15,00		
8/28/2012	12:22:00 AM	175,20	174,80	174,90	1,00	0,85	0,93	85,00	70,00	75,00	-12,50	-12,50	-15,00		
8/28/2012	12:24:00 AM	175,40	175,10	175,30	1,00	0,85	0,90	85,00	70,00	75,00	-12,50	-10,00	-12,50		
8/28/2012	12:26:00 AM	175,40	175,10	175,20	1,00	0,88	0,93	85,00	67,50	72,50	-12,50	-10,00	-12,50		
8/28/2012	12:28:00 AM	175,70	175,20	175,30	1,00	0,83	0,90	87,50	72,50	75,00	-12,50	-10,00	-12,50		
8/28/2012	12:30:00 AM	175,50	175,10	175,20	1,00	0,88	0,93	82,50	67,50	75,00	-12,50	-12,50	-12,50		
8/28/2012	12:32:00 AM	175,40	175,00	175,10	1,00	0,85	0,90	82,50	70,00	75,00	-12,50	-12,50	-12,50		
8/28/2012	12:34:00 AM	175,60	175,20	175,30	1,00	0,85	0,93	85,00	67,50	72,50	-12,50	-10,00	-12,50		
8/28/2012	12:36:00 AM	175,70	175,40	175,50	1,00	0,85	0,90	85,00	70,00	72,50	-12,50	-10,00	-12,50		
8/28/2012	12:38:00 AM	175,60	175,30	175,40	1,00	0,85	0,93	85,00	67,50	75,00	-12,50	-10,00	-12,50		
8/28/2012	12:40:00 AM	175,30	175,00	175,10	1,00	0,85	0,90	85,00	70,00	75,00	-12,50	-10,00	-12,50		
8/28/2012	12:42:00 AM	175,50	175,10	175,20	1,00	0,85	0,90	85,00	72,50	75,00	-12,50	-12,50	-12,50		
8/28/2012	12:44:00 AM	175,80	175,30	175,50	1,00	0,85	0,90	82,50	70,00	72,50	-12,50	-10,00	-12,50		
8/28/2012	12:46:00 AM	175,80	175,50	175,50	1,00	0,85	0,90	82,50	67,50	72,50	-12,50	-12,50	-12,50		
8/28/2012	12:48:00 AM	175,20	174,90	175,10	1,00	0,85	0,90	85,00	72,50	75,00	-12,50	-10,00	-15,00		
8/28/2012	12:50:00 AM	175,40	175,20	175,20	1,00	0,80	0,88	80,00	67,50	70,00	-12,50	-12,50	-12,50		
8/28/2012	12:52:00 AM	175,40	175,00	175,10	1,00	0,85	0,90	85,00	70,00	75,00	-12,50	-10,00	-12,50		

Energy Report

“Energy Report” is selected from “Reports” menu.

In this report, all energy parameter values are listed for a selected device in a defined time range.

entbus⁺ @ Web

Fri Sep 14 2012 09:47

Monitoring Reports Settings Device Setup About Logout

Energy Report

Start Date * 9/13/2012

End Date * 9/14/2012

Device * PanoTest1

Download Report

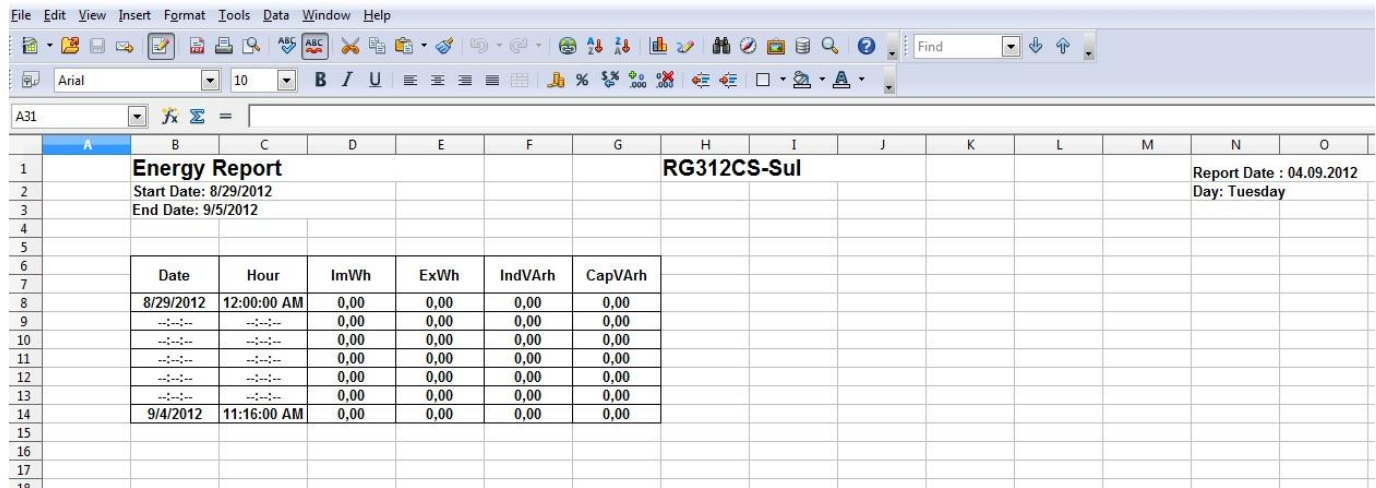
Start date is selected from the calendar.

End date is selected from the calendar.

Desired device is selected from the drop-down list.

“Download Report” button is clicked.

The resulting report is displayed in XLS format.



Date	Hour	ImWh	ExWh	IndVARh	CapVARh
8/29/2012	12:00:00 AM	0,00	0,00	0,00	0,00
--:--	--:--	0,00	0,00	0,00	0,00
--:--	--:--	0,00	0,00	0,00	0,00
--:--	--:--	0,00	0,00	0,00	0,00
--:--	--:--	0,00	0,00	0,00	0,00
--:--	--:--	0,00	0,00	0,00	0,00
9/4/2012	11:16:00 AM	0,00	0,00	0,00	0,00

Total Energy Consumption Report

“Total Energy Consumption Report” is selected from **“Reports”** menu.

In this report, all total energy parameter values are listed for one selected device or more in a defined time range.



entbus⁺@ Web

Tue Sep 04 2012 10:56

Monitoring Reports Settings Device Setup About Logout

Total Energy Consumption Report

Start Date * 9/3/2012 12:00 AM

End Date * 9/4/2012 12:00 AM

Device * -select devices-

Download Report

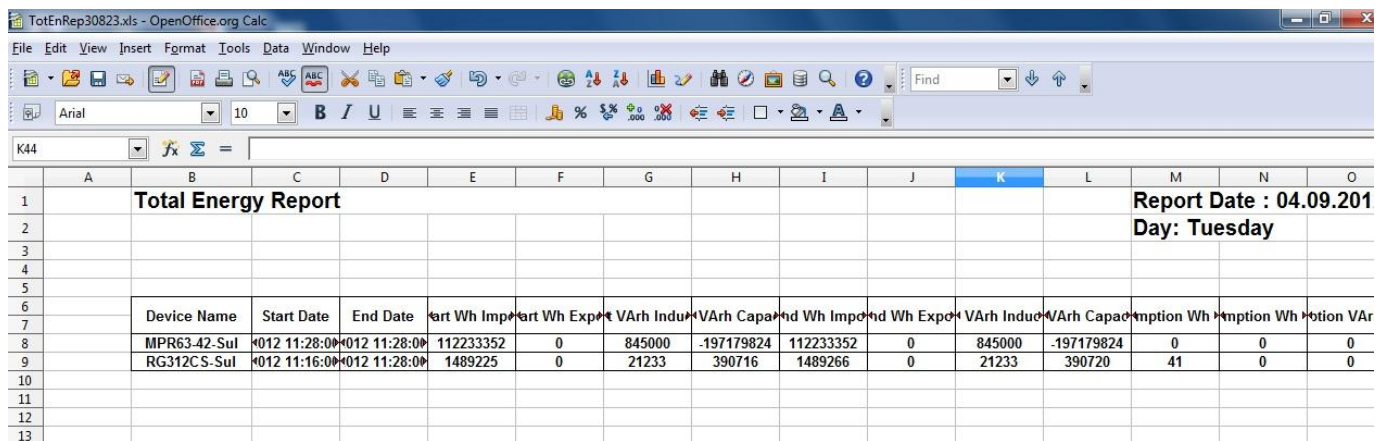
Start date is selected from the calendar.

End date is selected from the calendar.

Desired device is selected from the drop-down list.

“Download Report” button is clicked.

The resulting report is displayed in XLS format.



Device Name	Start Date	End Date	Wh Imp	Wh Exp	VARh Induc	VARh Capac	Wh Imp	Wh Exp	VARh Induc	VARh Capac	Whption	Whption	Whption VAR
MPR63-42-Sul	012 11:28:00	012 11:28:00	112233352	0	845000	-197179824	112233352	0	845000	-197179824	0	0	0
RG312CS-Sul	012 11:16:00	012 11:28:00	1489225	0	21233	390716	1489266	0	21233	390720	41	0	0

Region Energy Report

“Region Energy Report” is selected from **“Reports”** menu.

In this report, all total energy parameter values are listed for all devices located under a region in a defined time range.



entbus⁺ Web

Tue Sep 04 2012 10:57

Monitoring Reports Settings Device Setup About Logout

Region Energy Report

Start Date * 9/3/2012

End Date * 9/4/2012

Region * Salı Pazarı

Download Report

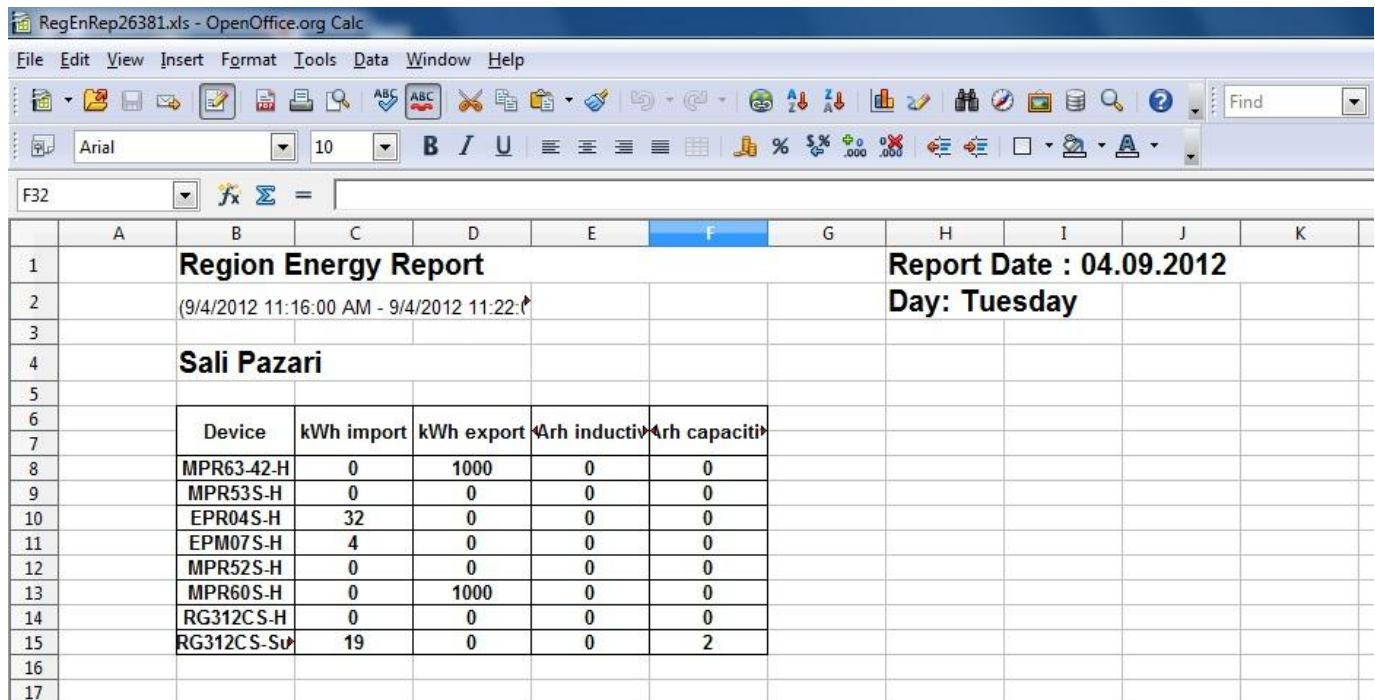
Start date is selected from the calendar.

End date is selected from the calendar.

Desired device is selected from the drop-down list.

“Download Report” button is clicked.

The resulting report is displayed in XLS format.



The screenshot shows an OpenOffice Calc spreadsheet titled 'RegEnRep26381.xls'. The spreadsheet contains a report with the following data:

Device	kWh import	kWh export	kWh inductive	kWh capacitive
MPR63-42-H	0	1000	0	0
MPR53S-H	0	0	0	0
EPR04S-H	32	0	0	0
EPM07S-H	4	0	0	0
MPR52S-H	0	0	0	0
MPR60S-H	0	1000	0	0
RG312CS-H	0	0	0	0
RG312CS-S	19	0	0	2

Power Factor Report

“Power Factor Report” is selected from **“Reports”** menu.

In this report, all values related to the reactive power compensation are listed for a device in a defined time range.



The screenshot shows the 'entbus+ Web' interface. The page title is 'Power Factor Report'. The form includes the following fields:

- Start Date: 9/3/2012
- End Date: 9/4/2012
- Device: MPR52S-T

A 'Download Report' button is located at the bottom of the form.

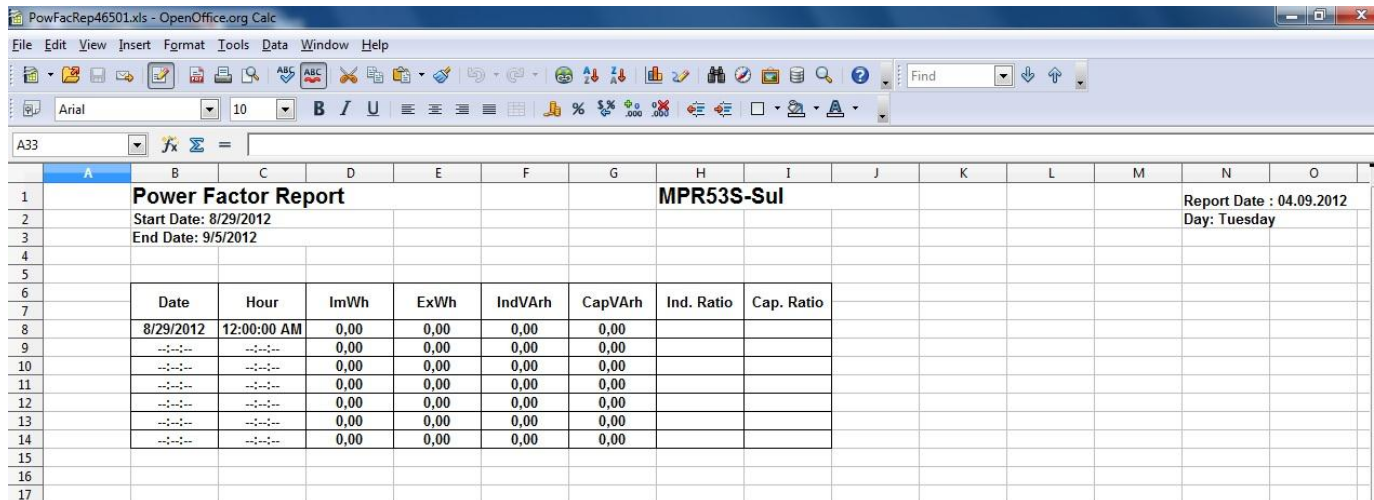
Start date is selected from the calendar.

End date is selected from the calendar.

Desired device is selected from the drop-down list.

“Download Report” button is clicked.

The resulting report is displayed in XLS format.




Power Factor Report								MPR53S-Sul		Report Date : 04.09.2012	
Start Date: 8/29/2012										Day: Tuesday	
End Date: 9/5/2012											
Date	Hour	ImWh	ExWh	IndVARh	CapVARh	Ind. Ratio	Cap. Ratio				
8/29/2012	12:00:00 AM	0,00	0,00	0,00	0,00						
--:--:--	--:--:--	0,00	0,00	0,00	0,00						
--:--:--	--:--:--	0,00	0,00	0,00	0,00						
--:--:--	--:--:--	0,00	0,00	0,00	0,00						
--:--:--	--:--:--	0,00	0,00	0,00	0,00						
--:--:--	--:--:--	0,00	0,00	0,00	0,00						
--:--:--	--:--:--	0,00	0,00	0,00	0,00						
--:--:--	--:--:--	0,00	0,00	0,00	0,00						

Alarm Report

“Alarm Report” is selected from **“Reports”** menu.

In this report, all alarms occurred on a device in the defined time range is listed for a device.



entbus⁺ @ Web

Tue Sep 04 2012 10:59

Monitoring Reports Settings Device Setup About Logout

Alarm Report

Start Date * 9/3/2012

End Date * 9/4/2012

Device * MPR52S-T

Download Report

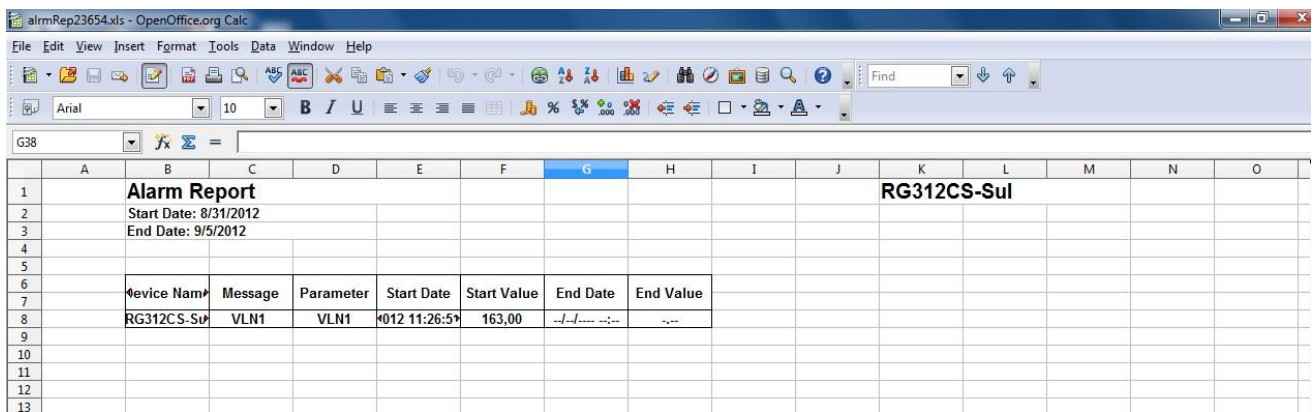
Start date is selected from the calendar.

End date is selected from the calendar.

Desired device is selected from the drop-down list.

“Download Report” button is clicked.

The resulting report is displayed in XLS format.

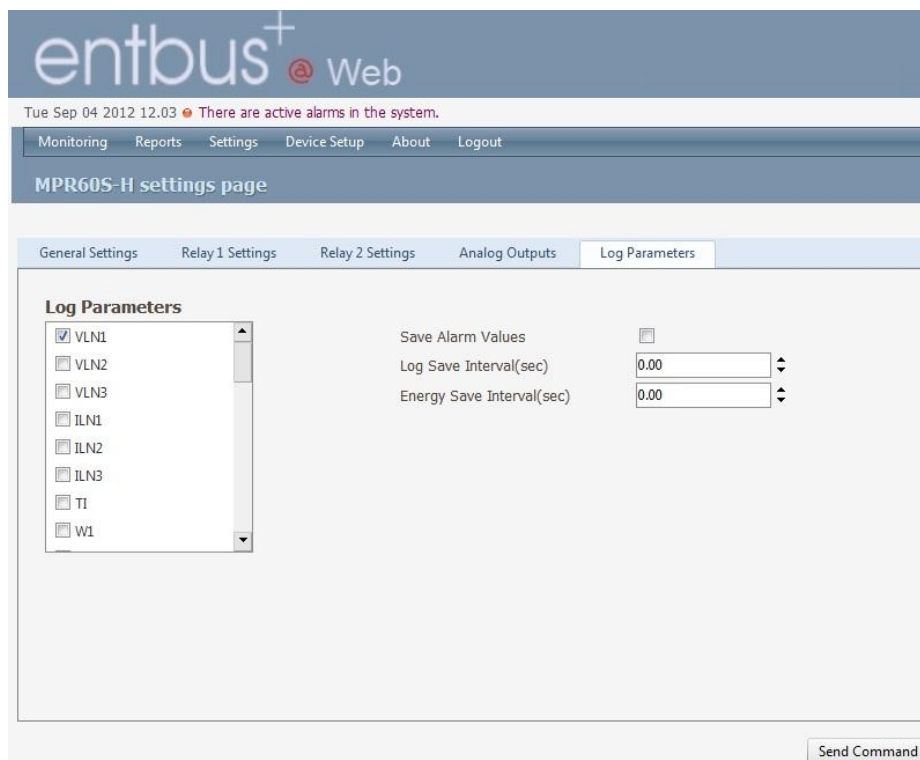


Device Name	Message	Parameter	Start Date	Start Value	End Date	End Value
RG312CS-Sul	VLN1	VLN1	2012 11:26:57	163.00	--/--/--	--

Log Report

“Log Report” is selected from **“Reports”** menu.

In this report, log parameter values saved on a device in the defined time range are listed for a device.



entbus+ Web

Tue Sep 04 2012 12.03 There are active alarms in the system.

Monitoring Reports Settings Device Setup About Logout

MPR60S-H settings page

General Settings Relay 1 Settings Relay 2 Settings Analog Outputs Log Parameters

Log Parameters

- VLN1
- VLN2
- VLN3
- ILN1
- ILN2
- ILN3
- TI
- W1

Save Alarm Values

Log Save Interval(sec) 0.00

Energy Save Interval(sec) 0.00

Send Command

Start date is selected from the calendar.

End date is selected from the calendar.

Desired device is selected from the drop-down list.

“Download Report” button is clicked.

The resulting report is displayed in XLS format.

LogRpr32004.xls - OpenOffice.org Calc

File Edit View Insert Format Tools Data Window Help

Find

Arial 10 B / U

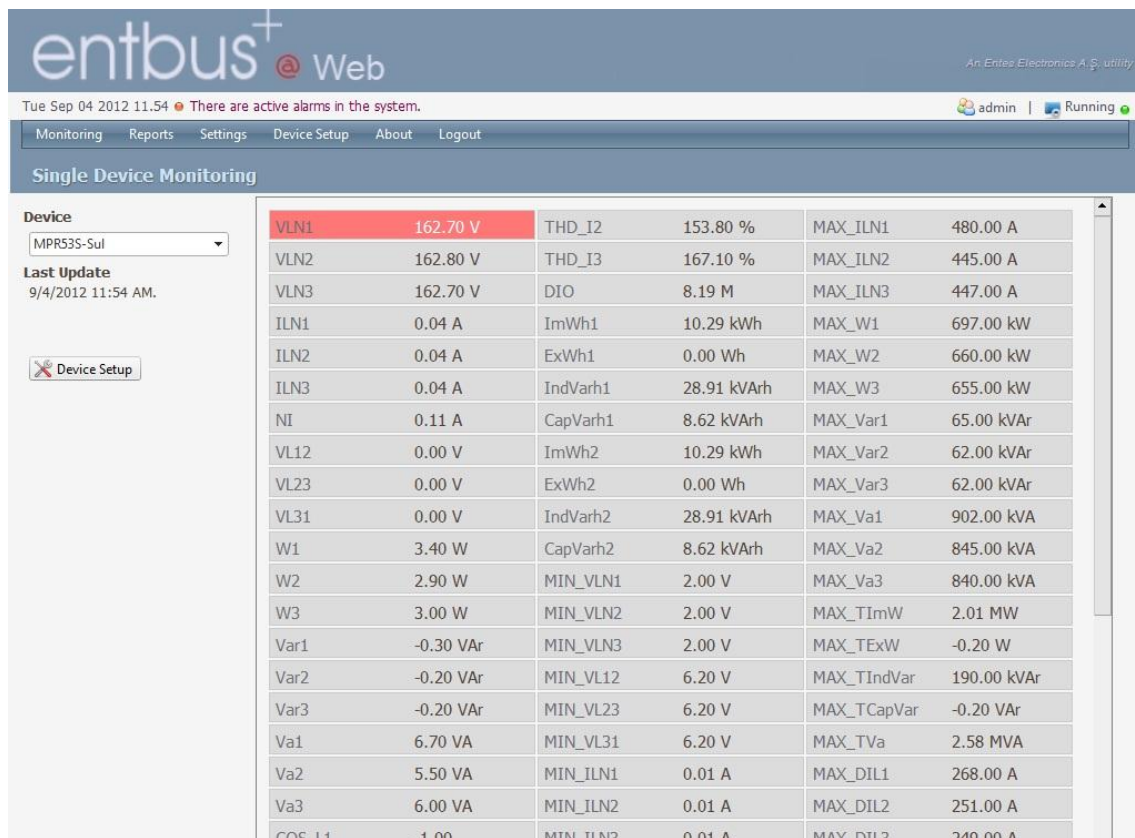
AI

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1		MPR63 Log Report									PanoTest2					
2		Report Date : 20.03.2012														
3		Day: Monday														
4																
5																
6																
7		Date	Hour	VLN1	VLN2	VLN3	ILN1	ILN2	ILN3	TI	W1	W2	W3	Var1	Var2	Var3
8		11.11.2011	00:19:08	218,60	217,80	218,70	0,12	0,17	0,12	0,13	24,00	35,00	24,00	-2,00	2,00	0,00
9		11.11.2011	00:19:08	231,10	230,00	231,20	0,01	0,01	0,01	0,01	1,00	1,00	1,00	0,00	1,00	0,00
10		11.11.2011	00:34:08	226,60	225,50	226,20	0,01	0,01	0,01	0,01	1,00	1,00	1,00	0,00	1,00	0,00
11		11.11.2011	00:49:08	226,50	225,60	226,60	0,01	0,01	0,01	0,01	1,00	1,00	1,00	0,00	1,00	0,00
12		11.11.2011	01:04:08	226,20	225,30	226,00	0,01	0,01	0,01	0,01	2,00	1,00	2,00	0,00	1,00	0,00
13		11.11.2011	01:19:08	226,90	226,10	227,00	0,01	0,01	0,01	0,01	1,00	1,00	1,00	0,00	1,00	0,00
14		11.11.2011	01:34:07	227,30	226,10	226,70	0,01	0,01	0,01	0,01	1,00	1,00	1,00	0,00	1,00	0,00
15		11.11.2011	01:49:07	227,00	226,10	227,00	0,01	0,01	0,01	0,01	2,00	2,00	2,00	0,00	1,00	0,00
16		11.11.2011	02:04:07	227,00	226,20	227,20	0,01	0,01	0,01	0,01	1,00	1,00	1,00	0,00	1,00	0,00
17		11.11.2011	02:19:06	227,70	226,60	227,50	0,01	0,01	0,01	0,01	2,00	2,00	2,00	0,00	1,00	0,00
18		11.11.2011	02:34:06	228,50	227,20	228,00	0,01	0,01	0,01	0,01	1,00	1,00	1,00	0,00	1,00	0,00
19		11.11.2011	02:49:06	227,30	226,30	227,40	0,01	0,01	0,01	0,01	1,00	1,00	1,00	0,00	1,00	0,00
20		11.11.2011	03:04:06	228,20	226,90	228,00	0,01	0,01	0,01	0,01	2,00	1,00	2,00	0,00	1,00	0,00
21		11.11.2011	03:19:05	228,20	227,20	228,30	0,01	0,01	0,01	0,01	1,00	1,00	1,00	0,00	1,00	0,00
22		11.11.2011	03:34:05	228,30	227,20	227,90	0,01	0,01	0,01	0,01	1,00	1,00	1,00	0,00	1,00	0,00

Monitoring

Single Device Monitoring

By clicking on “**Single Device Monitoring**” under “**Monitoring**” menu, all parameters of a selected device can be monitored. For this monitoring option, a device is selected from the drop-down list on the left panel.



Panel Monitoring

By clicking on “**Single Device Monitoring**” under “**Monitoring**” menu, following page is displayed.

The screenshot displays the 'entbus+ Web' interface for 'Panel Monitoring'. The top navigation bar includes 'Monitoring', 'Reports', 'Settings', 'Device Setup', 'About', and 'Logout'. The left sidebar shows a tree view of devices under 'ENTES' and '6.BÖLÜM'. The main area shows several device monitoring panels for '6 SMD1', '6 SMD2', and '6 SMD3'. Each panel displays parameters like VLN1, VLN2, VLN3, ILN1, ILN2, and ILN3 with their respective values. A table at the bottom shows a log of events, including a 'Yüksek Gerilim' (High Voltage) alarm for device '6 SMD1' on 4/24/2012 at 1:41 PM.

Device	Message	Date	Parameter	Value
6 SMD1	6SMD1 Yüksek Gerilim	4/24/2012 1:41 PM	VLN1	215

Instantaneous parameter values of one or more devices are displayed on this page.

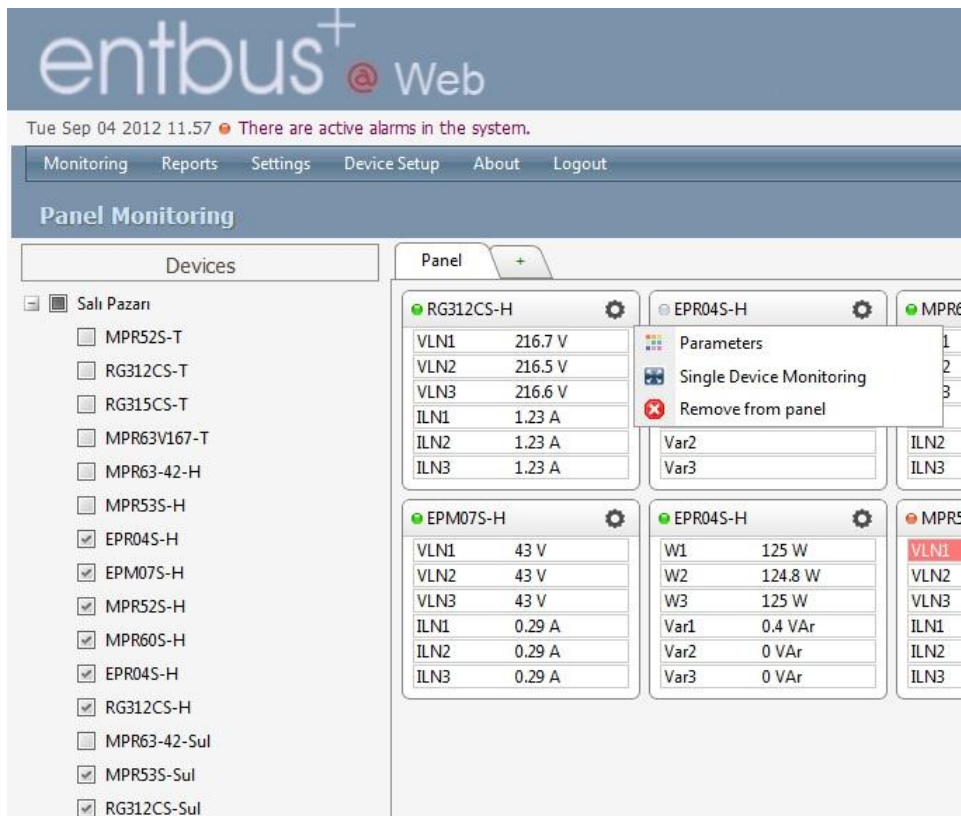
Alarm information is displayed on the bottom of the page. If an alarm occurs, corresponding device's information panel shows a red notification on the upper left corner.

Desired devices are selected from the panel on the left by clicking their checkboxes.

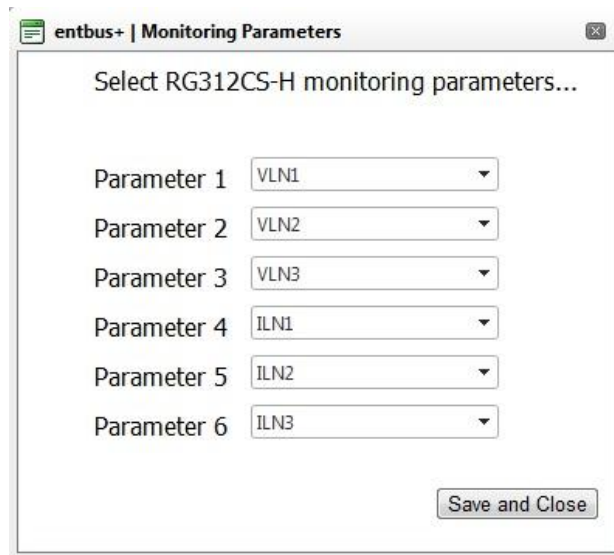
A total of 6 instantaneous parameters are displayed in the panel for each device.

Created panel is saved by entering a name in the textbox on the upper right side of the page and clicking on the “**Save**” button.

A menu is displayed by clicking on the “**Show**” button of a device parameter panel (the cog icon on the upper right side of the parameter panel).



***Parameters:** 6 parameters which will be shown on the “**Panel Monitoring**” window are selected from this menu.



6 desired monitoring parameters are selected in any order. Afterwards, “**Save and Close**” button is clicked.

***Single Device Monitoring:** This option takes the user to “**Single Device Monitoring**” page for the corresponding device.

***Remove from panel:** This option removes the panel from the monitoring page.

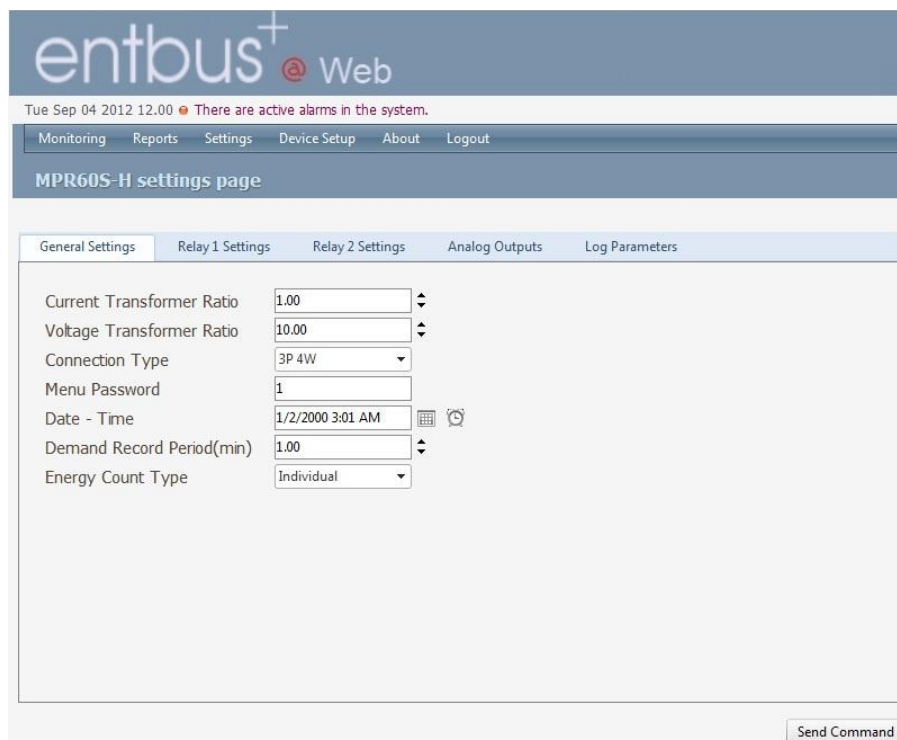
Device Setup

After “**Device Setup**” link is clicked, desired device is selected from the drop-down list and “**Go to device setup**” button is clicked.

Configuration parameters of the selected device are displayed on the resulting page. All configuration parameters of a device can be set by using the web monitoring service.



After the device is selected and “**Go to device setup**” is clicked, device can be configured by using the different tabs.



MPR60S-H settings page

General Settings Relay 1 Settings Relay 2 Settings Analog Outputs Log Parameters

1st Relay Function Alarm

Alarm Parameters

Parameter 1	VLN1	Parameter 2	VLN2	Parameter 3	VLN3
High	30.00	High	34.00	High	40.00
Low	20.00	Low	21.00	Low	25.00
Delay	10.00	Delay	10.00	Delay	10.00
Hysteresis	5.00	Hysteresis	4.00	Hysteresis	1.00

* High, low and hysteresis values here are raw values. If exists, current / voltage transformer ratios and multipliers related to parameter should be considered in evaluating.

Send Command

MPR60S-H settings page

General Settings Relay 1 Settings Relay 2 Settings Analog Outputs Log Parameters

2nd Relay Function Alarm

Alarm Parameters

Parameter 1	VLN1	Parameter 2	VLN1	Parameter 3	VLN3
High	0.00	High	0.00	High	0.10
Low	0.00	Low	330.00	Low	0.00
Delay	0.00	Delay	59.00	Delay	50.00
Hysteresis	0.00	Hysteresis	24.00	Hysteresis	0.00

* High, low and hysteresis values here are raw values. If exists, current / voltage transformer ratios and multipliers related to parameter should be considered in evaluating.

Send Command

MPR60S-H settings page

General Settings Relay 1 Settings Relay 2 Settings Analog Outputs Log Parameters

1st Analog Output Parameters

Analog Output Type	<input type="text" value="not set"/>
Parameter	<input type="text" value="not set"/>
High	<input type="text"/>
Low	<input type="text"/>

2nd Analog Output Parameters

Analog Output Type	<input type="text" value="not set"/>
Parameter	<input type="text" value="not set"/>
High	<input type="text"/>
Low	<input type="text"/>

Send Command

MPR60S-H settings page

General Settings Relay 1 Settings Relay 2 Settings Analog Outputs Log Parameters

Log Parameters

- VLN1
- VLN2
- VLN3
- ILN1
- ILN2
- ILN3
- TI
- W1

Save Alarm Values	<input type="checkbox"/>
Log Save Interval(sec)	<input type="text" value="0.00"/>
Energy Save Interval(sec)	<input type="text" value="0.00"/>

Send Command

About

Information about software and license are displayed on this page.

entbus⁺ @ Web

Tue Sep 04 2012 12:04 ● There are active alarms in the system.

Monitoring Reports Settings Device Setup About Logout

About



Entbus Plus
v2.5.0
Remote Monitoring Software



License Status	● ACTIVE
Serial Number	00002
Device Count Limit	20
License End Date	Friday, November 22, 2013

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