



Data collection system

AXIS READER

User guide

Kaunas, 2011

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Introduction – the purpose of software package

This software is for accounting devices to collect data collection, analysis and visualization.

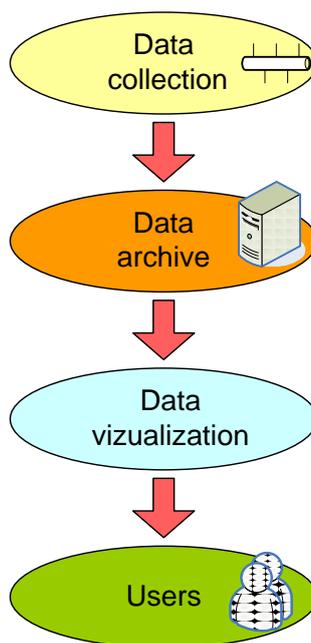
Data collection, visualization and processing system "Axis Reader software" package consists of two programs: data collection programme „AXIS Reader“ and data visualization using web browser programme "Axis Webserver“.

The data storage device DK-3 is used for reading data from the SKS-3, SKS-4, SKU-03, SKM-1M, SKU-01xx, SKU-4 types of heat meters via optical, wired or wireless digital interfaces. Data can be read from other types of meters, with a standard M-Bus interface, used to save collected data and transfer it to computer database.

The data storage device DK-3 is equipped to work with the program "Axis Reader", which can be installed in personal computer operating systems Windows 2000/NT/XP/Vista/7.

Review of basic properties

The data collection program „AXIS Reader“



The data collection programme Axis Reader is used for collecting data from objects using cable modems or GSM, or GPRS Internet connection, or directly connect to the meter. The programme supports many standard and non-standard device communications protocols. It is an independent program that works as a service, i.e. can simultaneously read data automatically at a specified time or read data at specified period from a specified list of devices:

- From one to several devices (direct connect via the serial communication channel)
- From one to several devices (using GSM modems)
- Enco telemetry devices (via Ethernet or GPRS connection).

It also can be scanned manually, i.e. from the same list of devices, or manually set parameters, which are necessary to read device.

The list of all accounting and regulatory devices ever made by AB „Axis Industries“:

- SKM-1 (all modifications)
- SKU-01 (all modifications)
- SKS-3 (all modifications)
- SKU-03
- SR-1
- other

Also other manufacturers (“Siemens”, “Danfoss”) heat meters as well.

It’s possible not only scan device parameters, but to manage them also.

Readed data is saved in an archive, so all saved data can be watched and analyzed by variety of standart applications. The data stored in the archives contains of all possible data readed from the accounting devices - real measured parameters, statistics of hours ; statistics of days; statistics of months; statistics of stops, etc.

Data visualization program „AXIS Webserver“

The data visualization program "Axis Webserver" is used to display stored data on the Internet. This program forms the accumulated data from the "Axis Reader" data archive. This program forms data from accumulated "Axis Reader" archive. The program results can be displayed on any standard web browser.

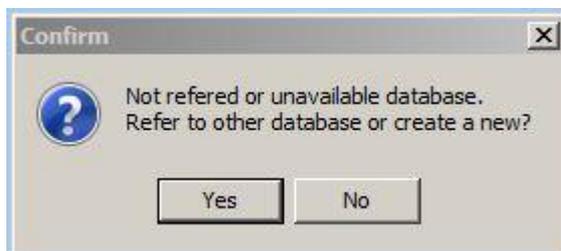
Program „AXIS Reader“

First start

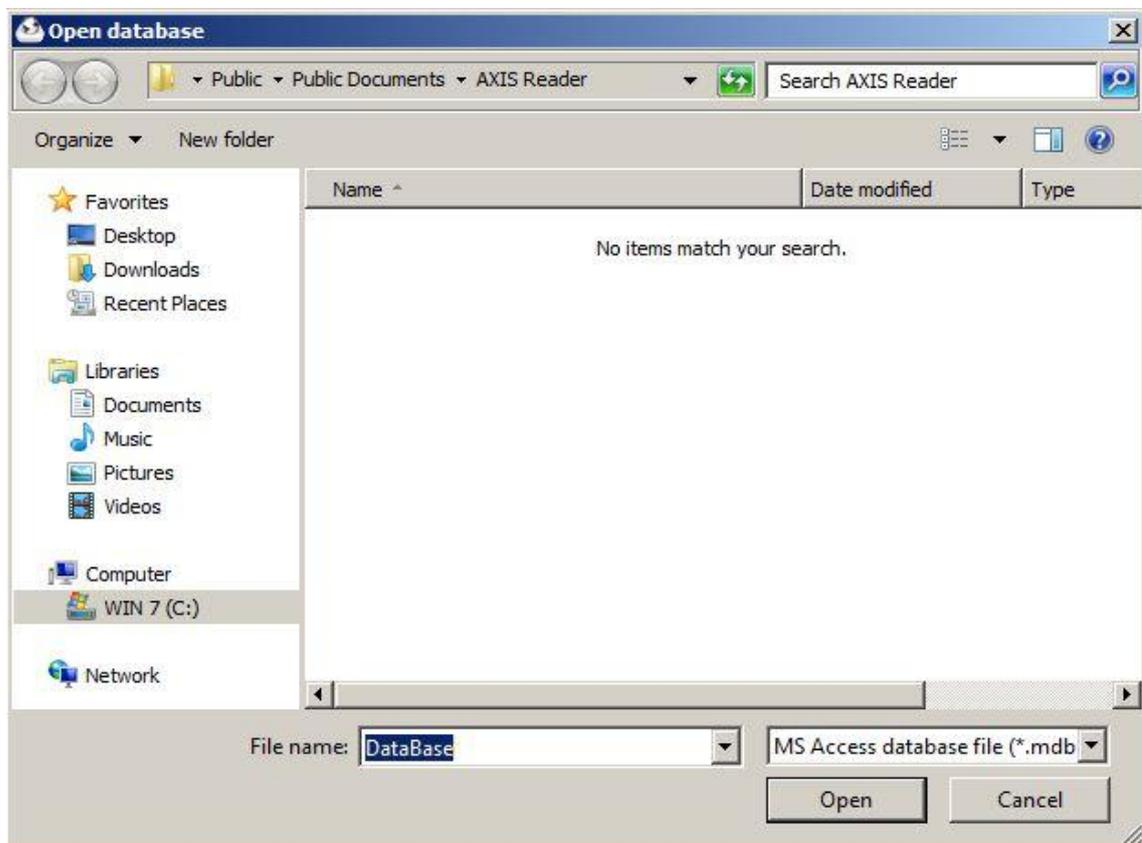
To run the program, you need click „Start“ button on the desktop taskbar. When menu opens, select „Programs“, next – „AXIS“ and click on „AXIS Reader“.



When the program is started for the first time, it displays a message that the database can not be found:

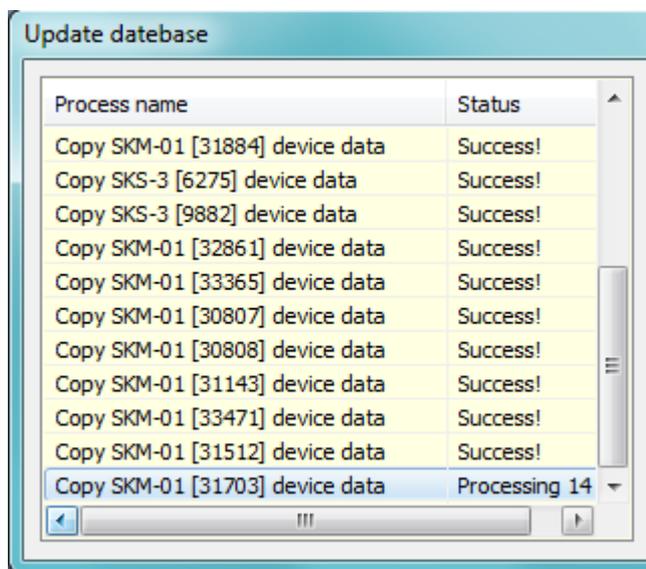


It is necessary to create a new database or link the old one.



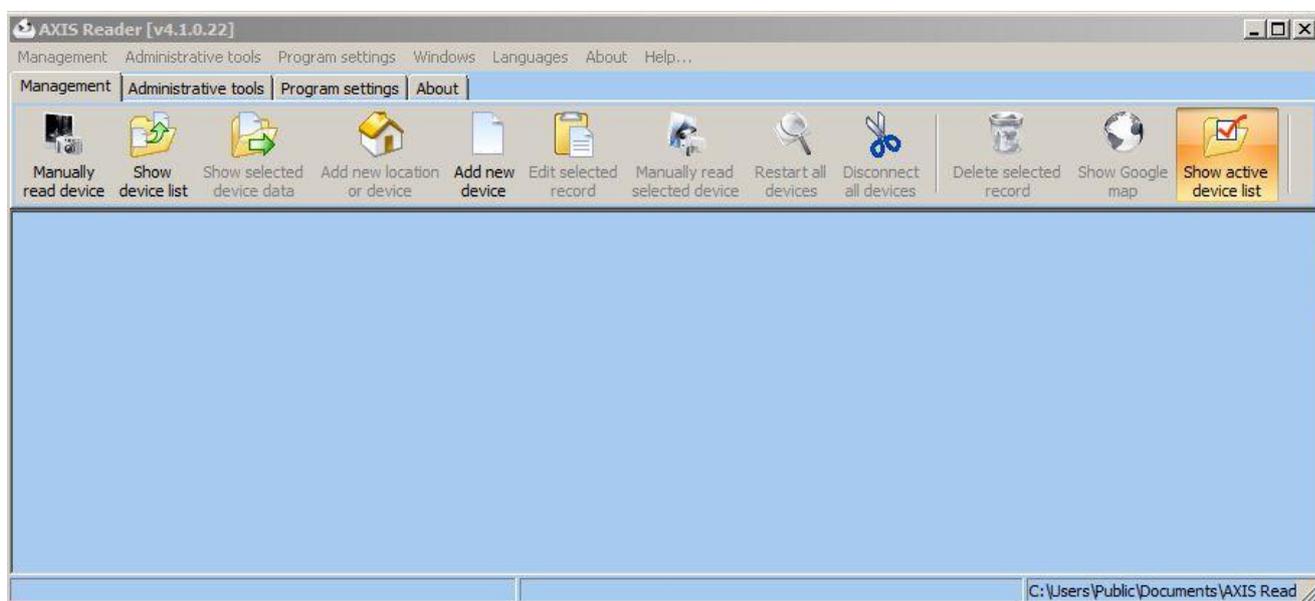
Updating the database

If you specify an older version of the application database, program automatically convert database into new one. It may take a few minutes, depending on the amount of data accumulated in the old database. Also a copy of old database named „db_name.mdb.BAK“ will be done.



The main window

The program consists of a standard Windows environment with standard window management tools and menus:



Basic menu structure

Management consists of several menu levels.

The expanded text menu can be seen in the first bar.

Menu with icons, which are divided into separate groups can be seen in the second bar.



Let's briefly discuss all of the tabs with icons.

Management

Description of icons tab „Management“ is listed below.



Description of icons tab „Management“.

Icon	Function
 Manually read device	Opens window for manually read devices (F2).
 Show device list	Opens the list of devices scanned (F5).
 Show selected device data	Shows the data readed from device (F3).
 Add new location or device	A new entry (region, city, street, device).
 Add new device	Add new device (Ctrl + Ins).
 Edit selected record	Edits the selected device (Ctrl + E).
 Manually read selected device	Starts scanning device manually (Ctrl + F2).
 Restart all devices	Starts scanning device automatically.

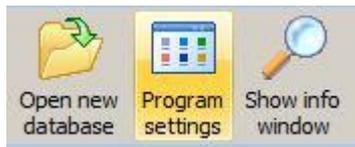
 Disconnect all devices	Terminates current automatic reading (Shift + Ctrl + Del).
 Delete selected record	Delete (Ctrl +Del).
 Show Google map	Show device locations on the map.
 Show active device list	Show the status of the reading process.

Administrative tools



Icon	Function
 Show client list	Opens a list of users.
 Add new client	Add a new client.
 Edit selected client	Edit selected user's data.
 Delete selected record(s)	Deletes all marked records.
 Activate data record	Activates or deactivates the record.
 Send selected client e-mail	Sends selected client e-mail containing data.

Program settings



Icon	Function
 Open new database	Opens old or create a new database.
 Program settings	Program settings (F4).
 Show info window	Opens the sent and received data display window (Ctrl + D).

About



Icon	Function
 About us...	Opens „About us“ window.
 License management...	Opens license management window.
 Check updates	Checks for newer version.

Reading devices manually

Press button „Manually read device“ to read devices manually. Opens window:

Manually read device

Device type: ENReader

User report template: [Empty]

Subscriber: [Empty]

Reading period: Off

Data period in days: 45

Parameter type: Current data

Serial number: 0

Mbus number: 0

Reading interface: Connect using Ethernet

Period (min.): 1440

Change value units (MWh->Gcal)

IP address: 10.2.3.130

Port: 37777

Manually read | Cancel

Choose device type from list „Device type“, data interface from list „Reading interface“, data reading period from list „Data period in days“, needed data type from list „Parameter type“, and other parameters, if needed. Some devices have an extended list of parameters (for example SKU-3)(on the right side).

When reading through the serial interface, must choose optional interface port, parity, stop bits, number of bits, connection speed and modem „legs“.

When reading via modem, opens window like shown below, where telephone number must be written in and method of dialing chosen. Your modem settings can be changed in program settings.

Reading interface

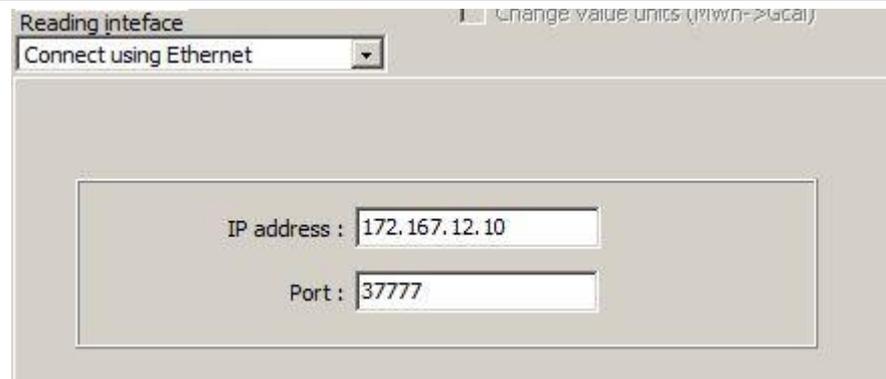
Change value units (MWh->Gcal)

Connect using modem

Phone number: +37068461256

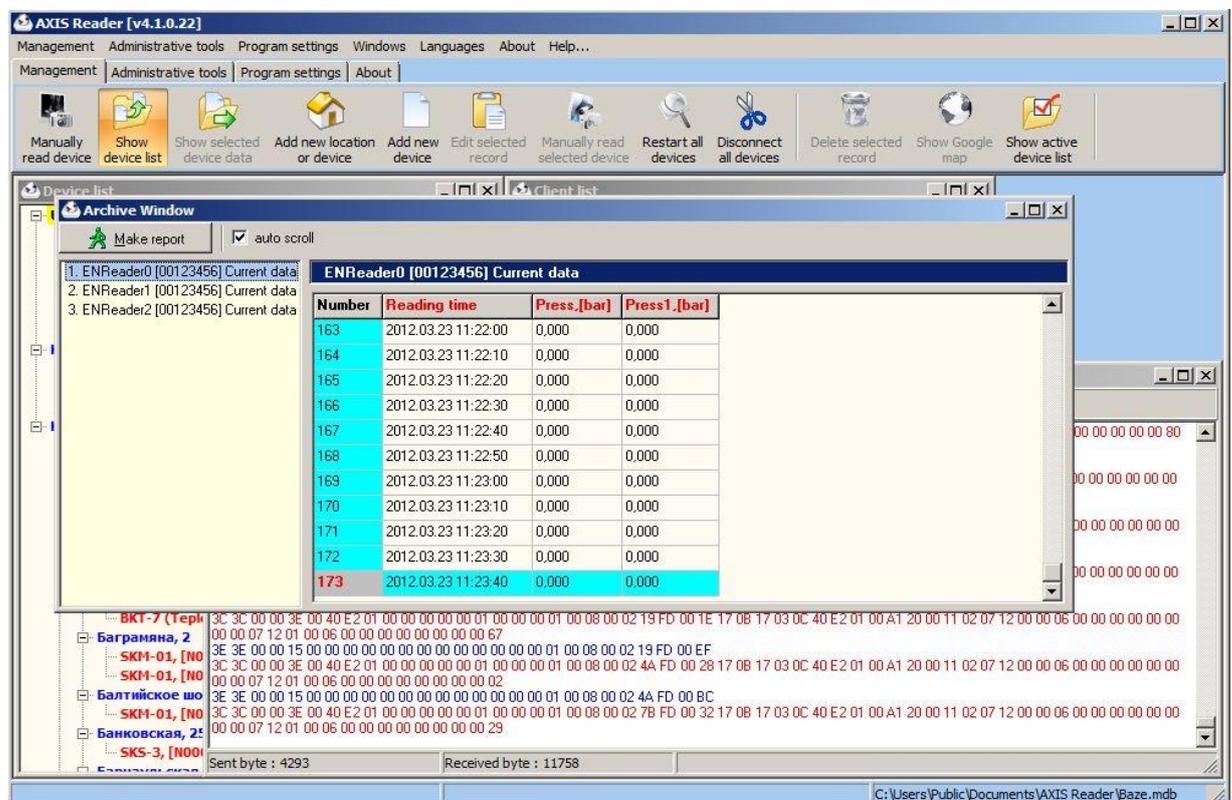
Pulse dial:

When reading using a device (such as "Enco") connected to a local area network, Internet or GPRS network, IP address and port must be entered .

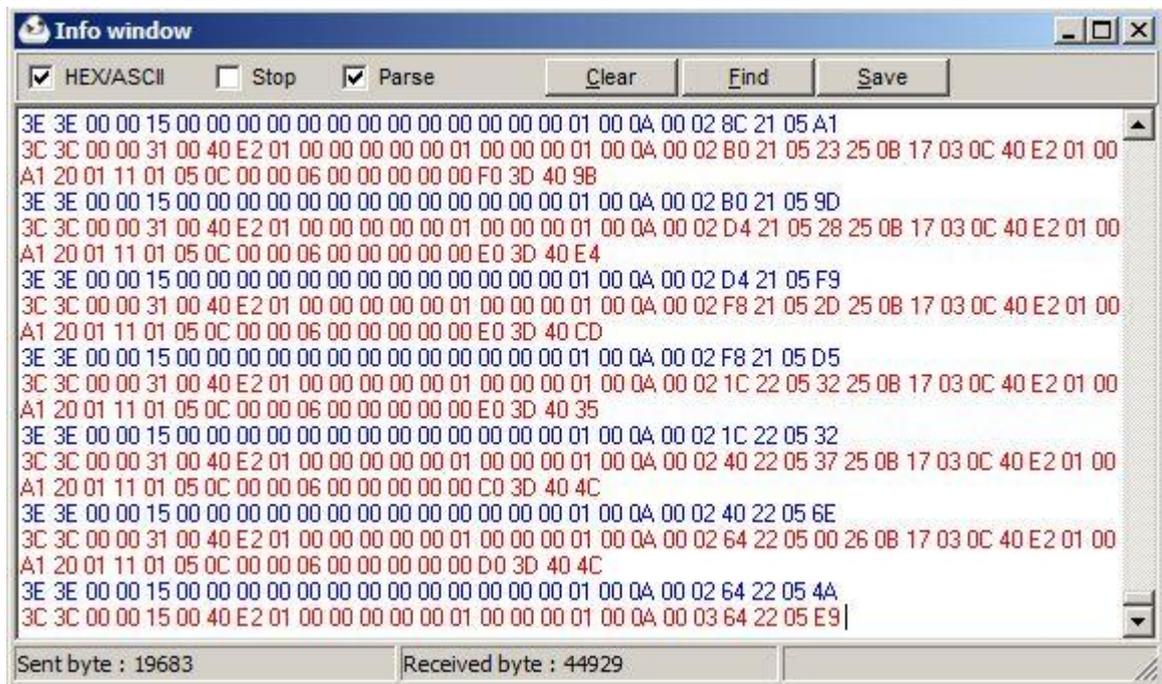


If all parameters are set, reading can be started by pressing the button „Manually read“. Settings window closes and scanning the data begins. There opens the information window, which is featured a list of active devices.

If reading is successfully finished and a setting „Show data, when reading manually“ selected, then scanned data will be seen immediately.



To see the scanning process, information display window can be opened (Ctrl + D). Requests, answers and other data can be seen in this window.

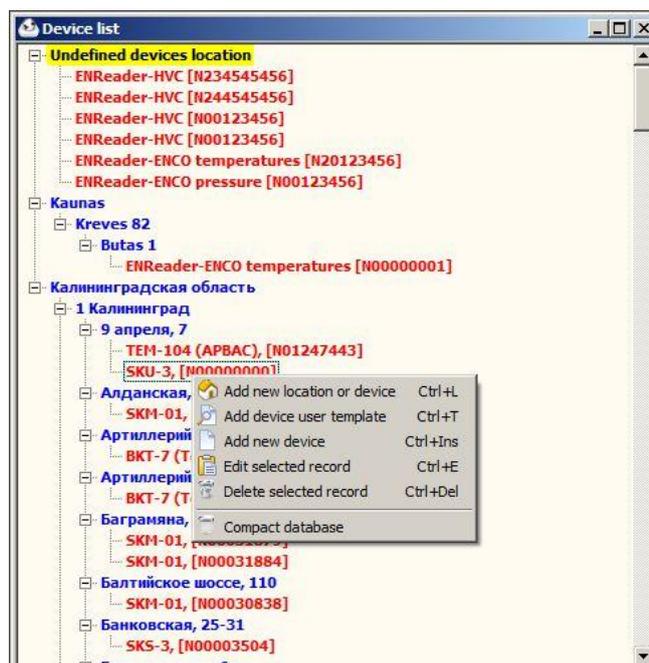


Read data saves in database if a setting, save read data from devices to database is chosen. If the database does not contain such a device, the device is placed in the group „Undefined devices location“. If device already exists in database, and „Update, if device type and number matches“ settings are marked, device’s data updates automatically.

Device list

View the list of devices

This is the main program window, where new devices can be added, scanned data reviewed and device settings changed .

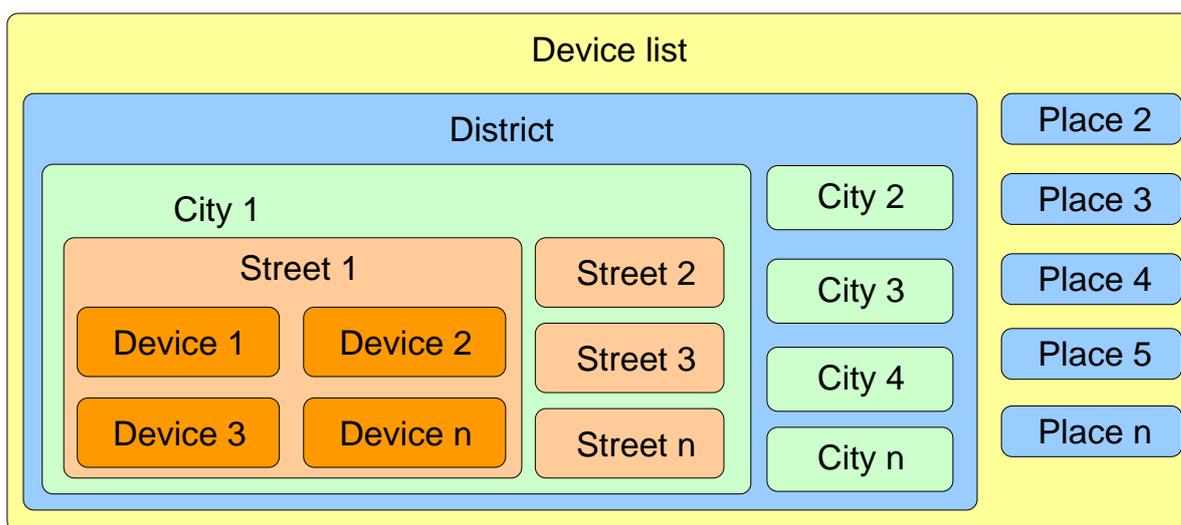


This window shows all the added and read devices in the database. If the device was scanned manually, the device will be added to the group „Undefined devices location“. If the device address is specified, it will be assigned a specific district. If the device address is specified, it will be assigned to specific location. Devices can be assigned to previously entered address by simply dragging them on the correct location address. If to changing the name of the region, city, street, or to changing device settings is wanted, press the right button on the desired entry and choose the menu that appears or use keyboard shortcuts:

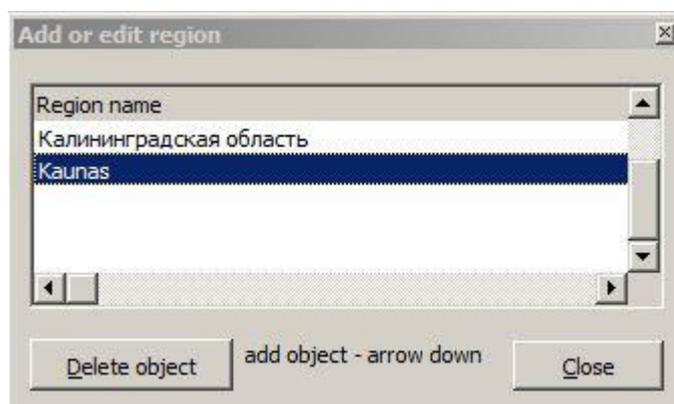
- Add new location or device (Ctrl + L)
- Add users template to device (Ctrl + T)
- Add new device (Ctrl + Ins)
- Edit selected entry (Ctrl+ E)
- Delete selected entry (Ctrl + Del)

Add new location or device

Depending on what the entry is selected, deeper entry is added. If the selected device or "not location", new region is added. If a region is selected, city is added. If city is selected, street is added. If street is selected, device is added. Here is hierarchy:



To add region press down arrow and type text to appeared window.



Be careful when entering similar streets from different cities, device must be added to specified street and specified city.

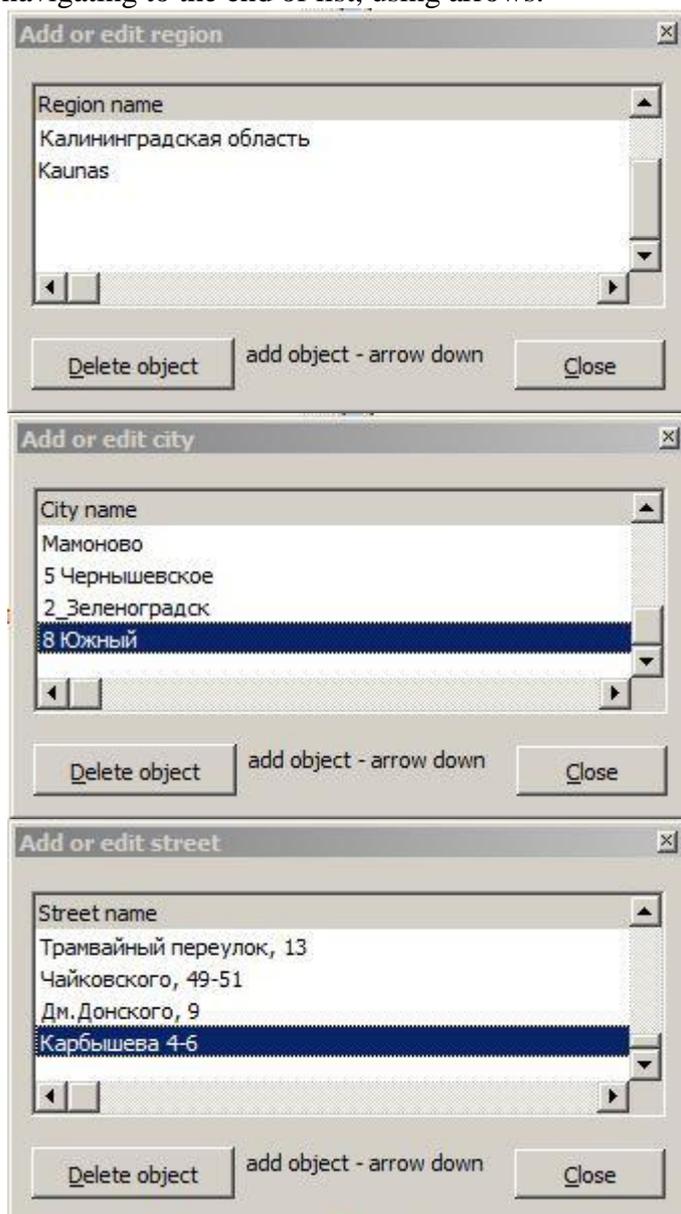
The following window shows when attempting to add a new device:

Edit selected record

If you select the desired device, push the button "Edit selected device" or the key combination (Ctrl + E or Ctrl + Enter) or holding the Ctrl and twice press the left mouse button opens a window:

On the left side of the window you can specify the device's country, town or street. Unallocated devices can be seen below.

To add a new country, city or street, press the button on the right marked „...“ and write name, after navigating to the end of list, using arrows.



On the right side of the device settings can be changed: device type, consumer report template, the subscriber's name, reading period, period in days (depth of reading data), device and M-Bus numbers.

This window opens when user's template is chosen:

Pressing the button "Select template file" links previously created report template or a blank MS Excel document.

Next set additional page (tab) name, lines and columns indexes, where report data will appear. Select wanted data from left side parameters type list.

Clicking "OK", will protect the template information.

Clicking button "Delete template", erase all template parameters.

It should be noted that each device requires a separate template, because the program always writes to the specified position, pushing the older data down (inserts line). Standard MS Excel functions can be used to create complex reports.

Adding new device

Pressing the button "Add a new device" opens the same window as clicking the "Edit selected record". Settings fields must be filled for all new devices.

Manual reading

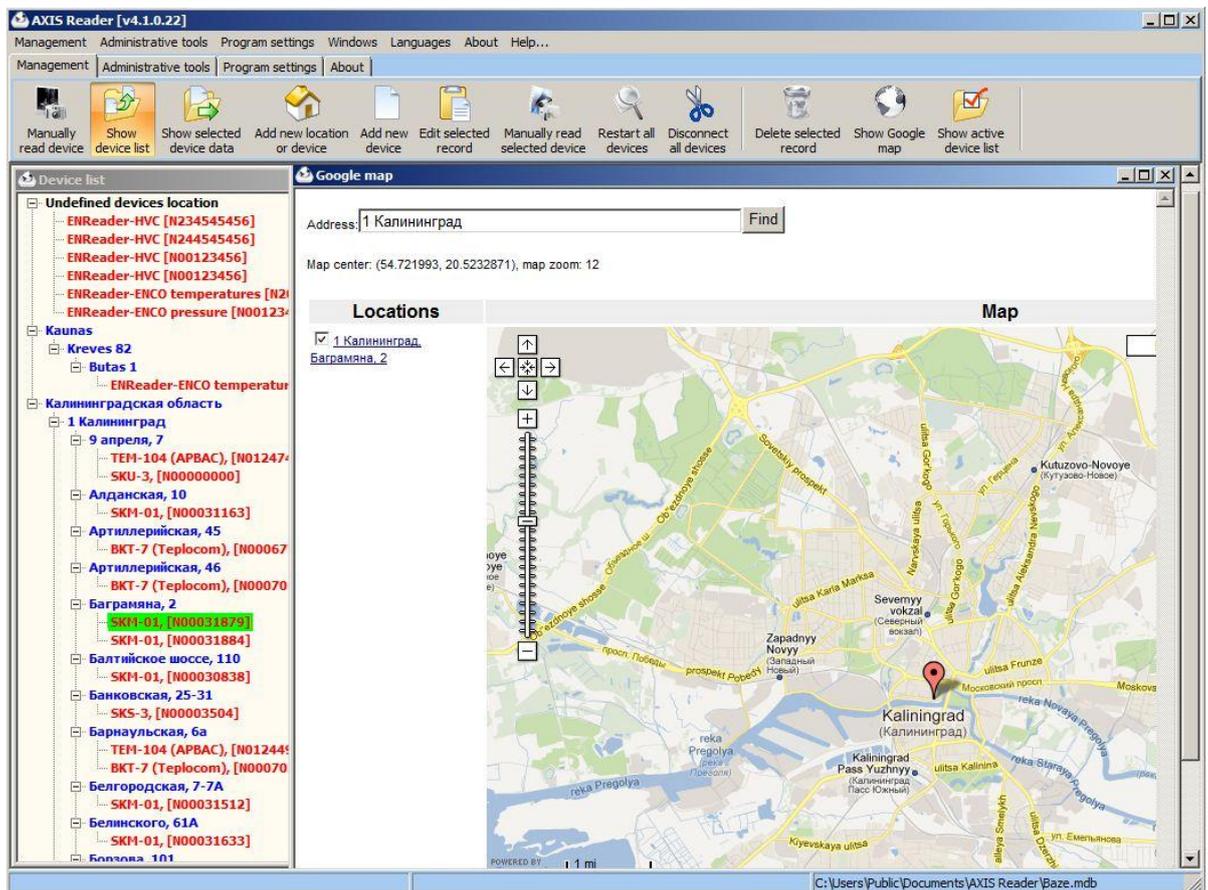
If you open the list of devices, select needed device, choose manual scan command "Read selected device manually" (Ctrl + F2), then starts scanning data from the device.

Delete record

If you open the device list, select the needed record like device, street address, town or region and click command delete the selected record (Ctrl + Del) this will erase all related entries (data, settings etc.). If you want to delete the entry in the higher hierarchy, delete all records in the lower hierarchy first.

View map

If you open the device list, and select needed entry with the correct street, city or region, and pressed the button "Show on Google map", you can see the device on the map.



Device data review and reports

When you select particular device and click "Show device data", quick key (F3), pressing the Enter key or double clicking the left mouse button opens a window that displays the data read from device. Needed data can be selected on the screen.

Object list	Parameter list	Source	Graphic	Time	E.Gcal	M1.t	P.kw	P1.kw	P2.kw	Pc.kw	Q
Current data				2011.09.20 21:12:12	16516,89	455286,9	0	0	0	0	0,0
Hours statistic				2011.09.21 06:01:15	16517,37	455346,9	0	0	0	0	0,0
Days statistic				2011.09.21 10:32:40	16518,16	455367,0	263	263	0	0	4,0
Month statistic				2011.09.21 22:03:05	16521,67	455456,2	203	203	0	0	5,0
Stop statistic				2011.09.22 10:03:04	16523,78	455533,6	261	261	0	0	4,0
T1 error statistic				2011.09.22 22:03:06	16526,53	455597,5	0	0	0	0	0,0
T2 error statistic				2011.09.23 10:53:17	16527,89	455643,0	264	264	0	0	5,0
Flowmeter F1 error statistic				2011.09.23 22:54:25	16530,31	455701,1	0	0	0	0	0,0
T1-T2 < 3°C statistic				2011.09.25 09:09:27	16535,89	455950,9	405	405	0	0	9,0
				2011.09.25 21:09:27	16538,15	456020,6	171	171	0	0	4,0
				2011.09.26 09:09:30	16540,33	456129,7	364	364	0	0	7,0
				2011.09.27 20:20:39	16547,55	456300,0	368	368	0	0	6,0
				2011.09.29 14:48:08	16555,99	456526,9	345	345	0	0	6,0
				2011.09.30 02:48:07	16558,71	456598,8	266	266	0	0	9,0
				2011.10.02 18:06:43	16569,11	456849,4	248	248	0	0	5,0
				2011.10.04 02:25:29	16574,96	457054,4	280	280	0	0	8,0

Pressing the right button on the desired object, open the menu:

Time	dE.Gcal	dM1.t	T1.°C	T2.°C	dTrun.h	Error.
2011.09.21	5,11	179,3	63,81	31,67	24	00000000
2011.09.22	4,53	131,3	63,86	28,56	24	00000000
2011.09.23	3,77	103,6	63,51	27,71	24	00000000
2011.09.24	4,51	146,5	63,52	32,59	24	00000000
2011.09.25	3,73	185,1	64,39	37,44	24	00000000
2011.09.26	5,03	97	63,74	38,77	9,16	00000000
2011.09.27	4,06	98	65,96	25,54	24	00000000
2011.09.28	5,13	130,8	66,73	28,26	24	00000000
2011.09.29	5,28	94,1	66,8	30,45	24	00000000
2011.09.30	4,83	23,8	66,5	38,63	24	00000000
2011.10.01	3,83	83,4	64,54	23,35	24	00000000
2011.10.02	3,06	78,8	65,35	28,91	24	00000000
2011.10.03	4,69	169,3	66,64	31,53	24	00000000
2011.10.04	0,48	15,6	66,26	34,65	2,43	00000000

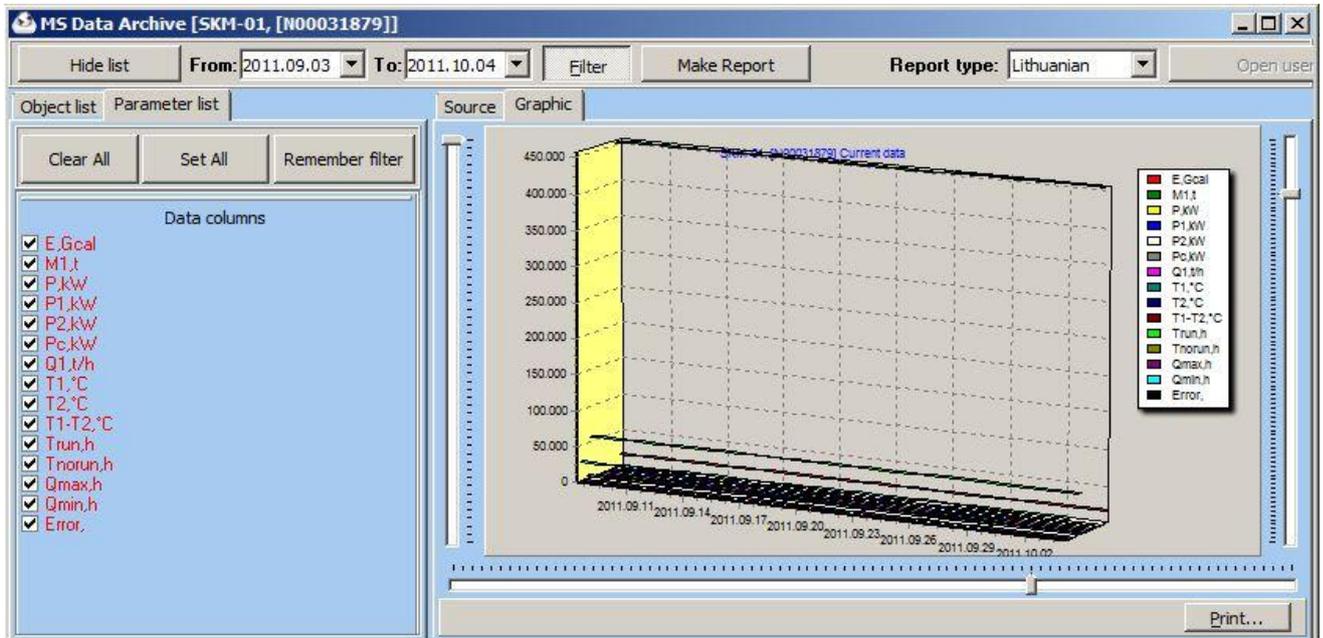
Menu consists of following items:

- Generate report (Alt + F5) – functions discussed in following pages
- Delete selected data (Alt + Del) – deletes selected data (current, hours, days or months Statistics, errors)
- Delete selected records data up to specified date (Alt + F11) – delete selected data from the period of the current date to the date specified.

In the tab "Parameter list" you can hide or show the fields you want, and changed the settings can be memorized by pressing "Save Filter". If you press the button "Filter", then the data will be elected by the date specified in the "From" and "Up to" strips.

Time	Qo(TB1).Gcal	V1(TB1).m3	V2(TB1).m3	M1(TB1).t	M2(TB1).t	Mg(TB1).t
2011.09.19 09:42:20	793,881	51589,0988	50936,2089	50878,1489	50575,5589	302,59
2011.09.19 21:42:21	793,882	51590,4388	50936,2089	50879,4889	50575,5589	303,93
2011.09.20 21:45:45	793,882	51592,2988	50936,2089	50881,3489	50575,5589	305,79
2011.09.21 23:19:56	793,883	51594,9088	50936,2089	50883,9589	50575,5589	308,4
2011.09.22 11:19:51	793,883	51595,8788	50936,2089	50884,9289	50575,5589	309,37
2011.09.22 23:19:52	793,883	51596,8588	50936,2089	50885,9089	50575,5589	310,35
2011.09.23 11:23:12	793,883	51597,9988	50936,2089	50887,0489	50575,5589	311,49
2011.09.23 23:23:41	793,883	51598,1188	50936,2089	50887,1689	50575,5589	311,61
2011.09.25 10:57:18	793,884	51598,8588	50936,2089	50887,9089	50575,5589	312,35
2011.09.25 22:57:13	793,884	51598,8988	50936,2089	50887,9489	50575,5589	312,39
2011.09.26 10:57:13	793,884	51598,8988	50936,2089	50887,9489	50575,5589	312,39
2011.09.27 09:38:38	793,885	51600,3688	50936,2089	50889,4189	50575,5589	313,86
2011.09.27 21:41:07	793,885	51601,2688	50936,2089	50890,3189	50575,5589	314,76
2011.09.29 16:14:35	793,886	51604,5788	50936,2089	50893,6289	50575,5589	318,07
2011.10.02 19:01:18	793,887	51608,6488	50936,2089	50897,6989	50575,5589	322,14
2011.10.04 03:26:37	793,887	51609,0288	50936,2089	50898,0789	50575,5589	322,52

The data can be viewed in graphical format. This can be done by opening the tab "Graphics".



Pressing the button "Create Report" will create and open standard report.

Ataskaita nuo 2011.09.08 iki 2011.10.04																
2	Abonentas:		MOU ДСДЮ Юность, наб.Баграмяна, 2													
3	Adresas:		1 Калининград, Баграмяна, 2													
4	Prietaisai:		SKM-01													
5	Prietaiso numeris:		31879													
6	Ataskaitos data:		2012.03.23													
/ Duomenų suvestinė:																
8	Time	E.Gcal	M1.t	P.kW	P1.kW	P2.kW	Pc.kW	Q1.t/h	T1.°C	T2.°C	T1-T2.°C	Trun.h	Tnorun.h	Qmax.h	Qmin.h	Error.
10	2011.09.08 08:07	16468,9	453903	217	217	0	0	5,14	62,35	25,97	36,38	56966,3	3534,87	0	27827,7	0
11	2011.09.08 19:08	16471	453956	263	263	0	0	4,83	66,6	19,8	46,8	56977,4	3534,87	0	27838,7	0
12	2011.09.09 07:37	16473	454029	243	243	0	0	7,62	64,13	36,65	27,48	56989,8	3534,87	0	27847	0
13	2011.09.09 21:11	16475,7	454097	0	0	0	0	0	64,41	29,22	35,19	57003,4	3534,88	0	27857,3	0

The program can prepare standard reports, but you can also use custom reports using your own report templates and automatically filling in the necessary data. This requires MS Excel because templates are filling with MS Excel.

If you press the button "Open the user account", extract to user specified template in MS Excel format will be created. Template data is filled, regardless of their type was set in the template. This is done because it is automatically selected data type that fits best. To fill in the template data from the desired period, set out time mark "Up to".

Completed template sheet handy to use as a data source, the other pages.

Filled users template looks like this:

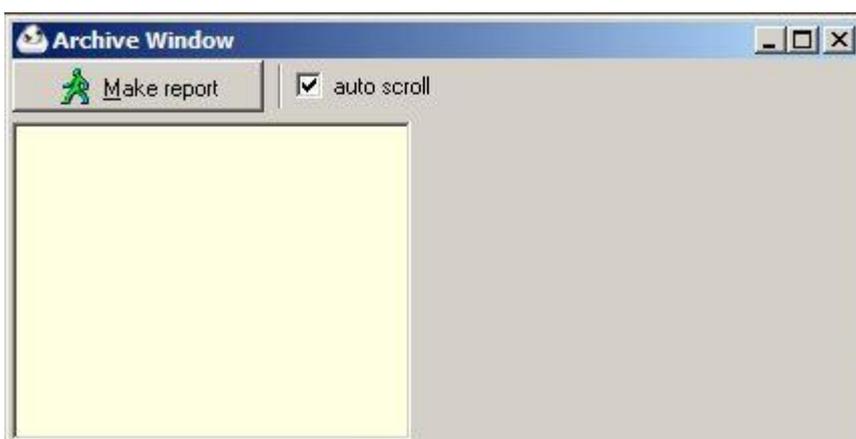
Time	Operation Time,h	delta Operation Time,h	Energy accumulated positive,MWh	delta Energy accumulated positive,MWh	Volume,m3
2000-09-28 05:00	93,2	93,2	0	0	5372,452

Review of active devices

When reading data from the devices, a list containing all the devices and their status can be seen.

Device name	Description
<input checked="" type="checkbox"/> ENReader [123456]	
<input checked="" type="checkbox"/> ENReader [234545456]	
<input checked="" type="checkbox"/> ENReader [234545456]	
<input checked="" type="checkbox"/> ENReader [244545456]	
<input checked="" type="checkbox"/> ENReader [234545456]	

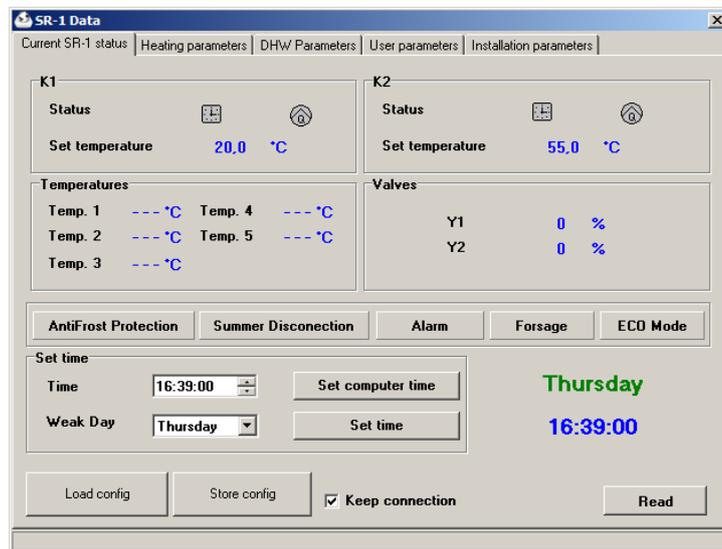
Double-clicking the mouse on the record, reading window opens. This can be done when reading manually or automatically as well.



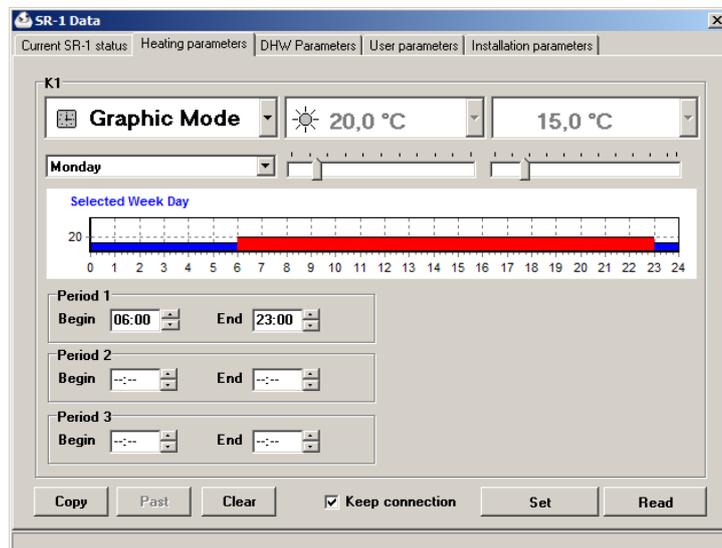
If you remove the device during data reading, data reading is terminated.

Remote thermal regulator SR-1 data scanning and management

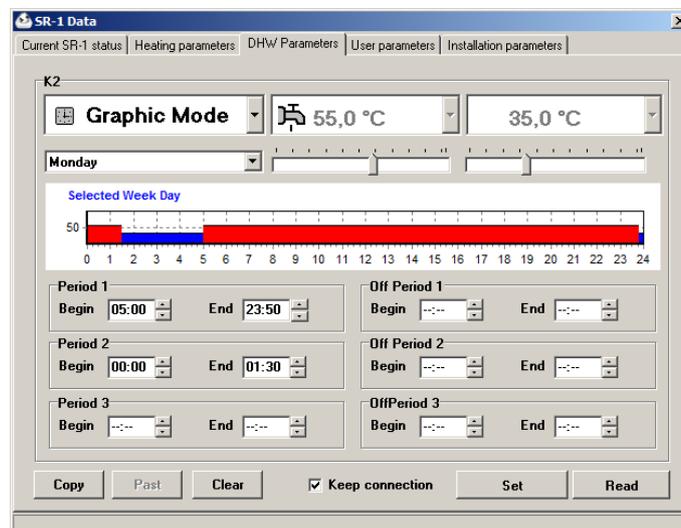
Default remote thermal controller scanning and data management.



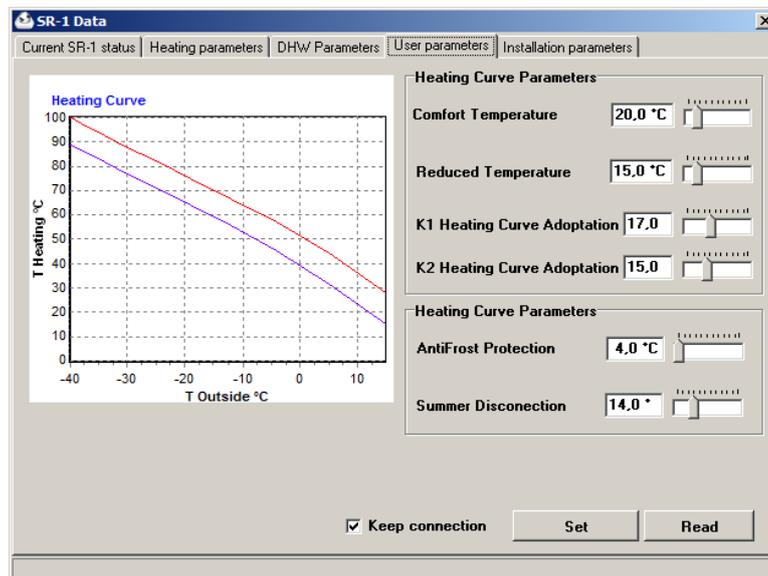
Heating temperature schedule can be set.



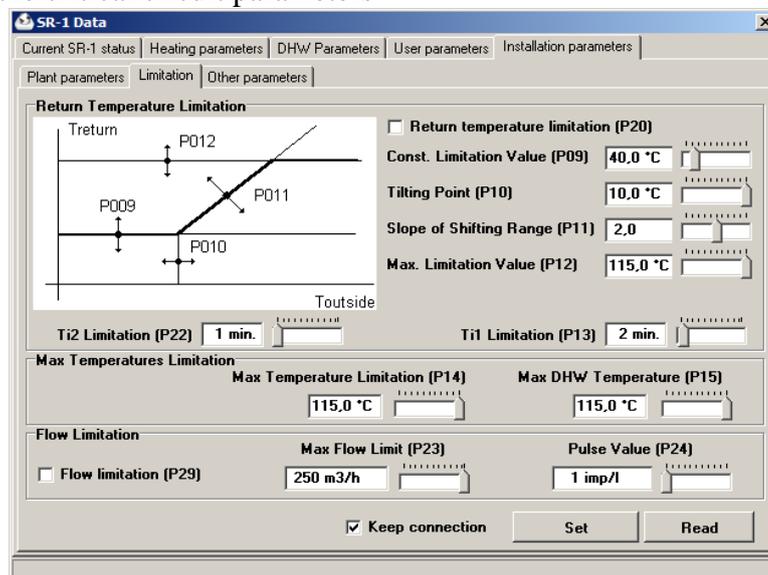
Hot water system temperature schedule can be set.



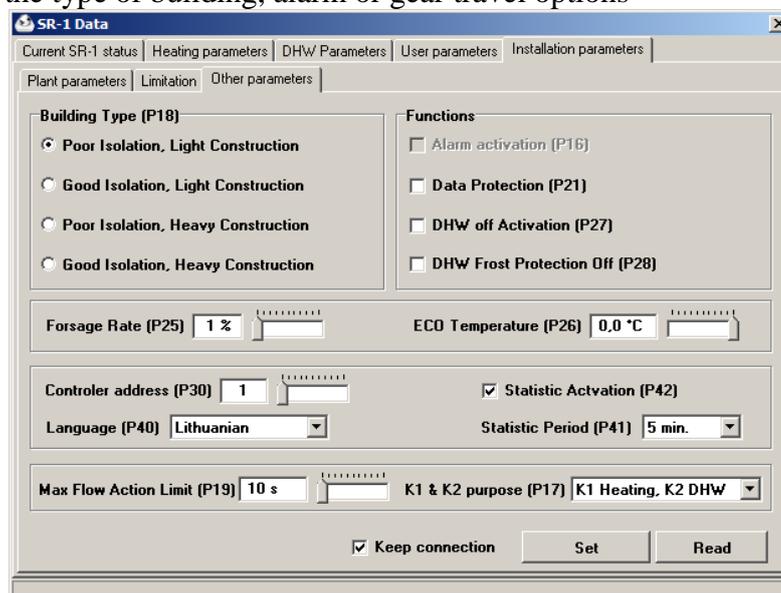
The user can change the heating and hot water systems critical parameters



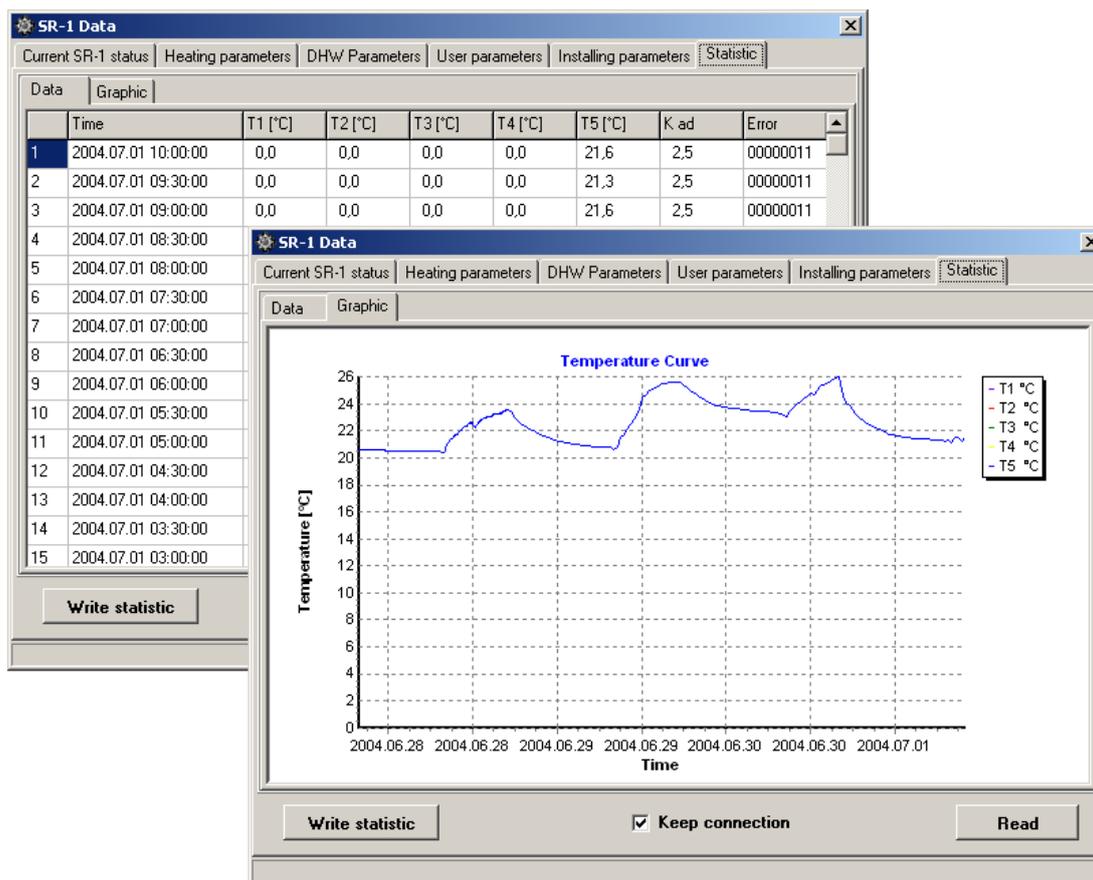
View and change the critical circuit parameters



View and change the type of building, alarm or gear travel options



Read data of regulation in archive, that was accumulated during specified interval of time and display statistics by the table or graph.

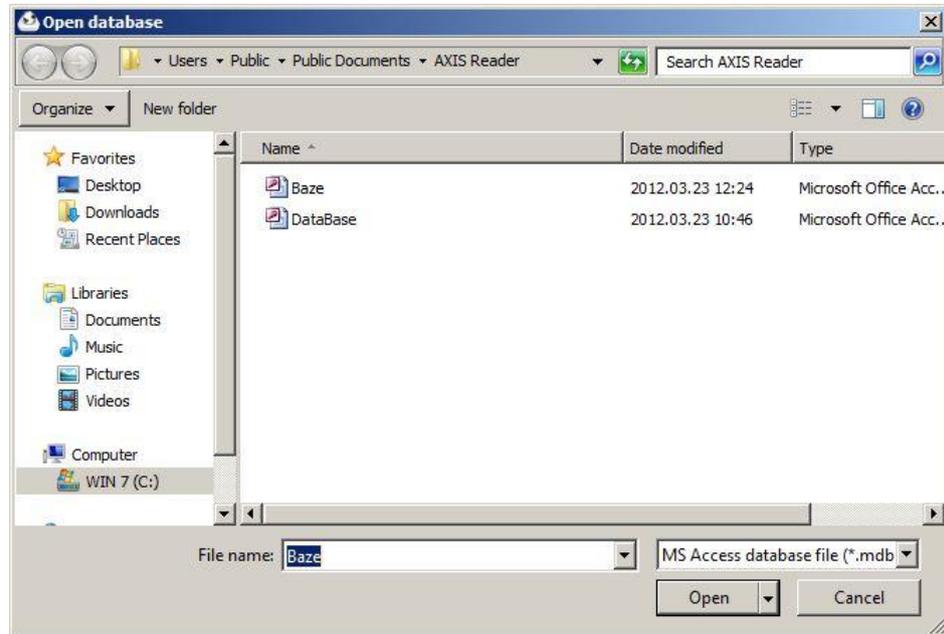


Terminate all scans

If you want to stop all devices reading, click the button "Disconnect all devices."

Database

If you want to specify a different database or create new, click button "Open Database", specify the database location and name and click "Open."

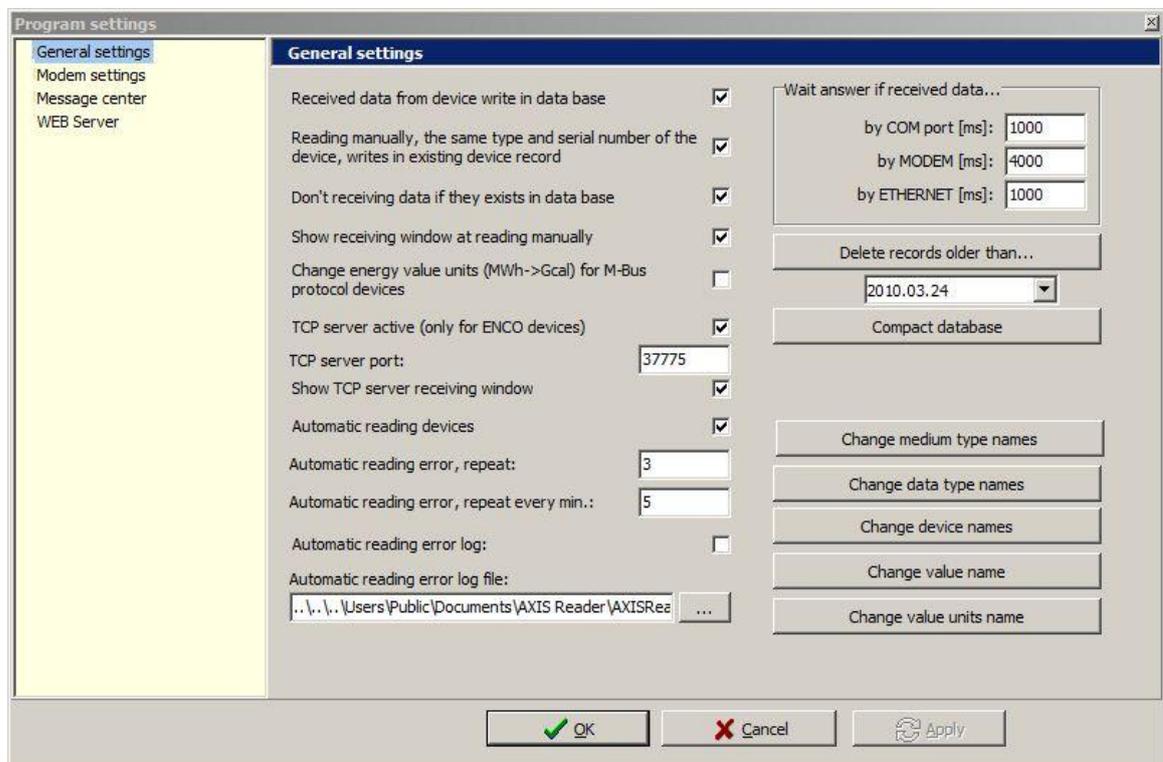


Program settings

Program settings are made up of several groups.

General settings

All general settings can be changed in this tab.



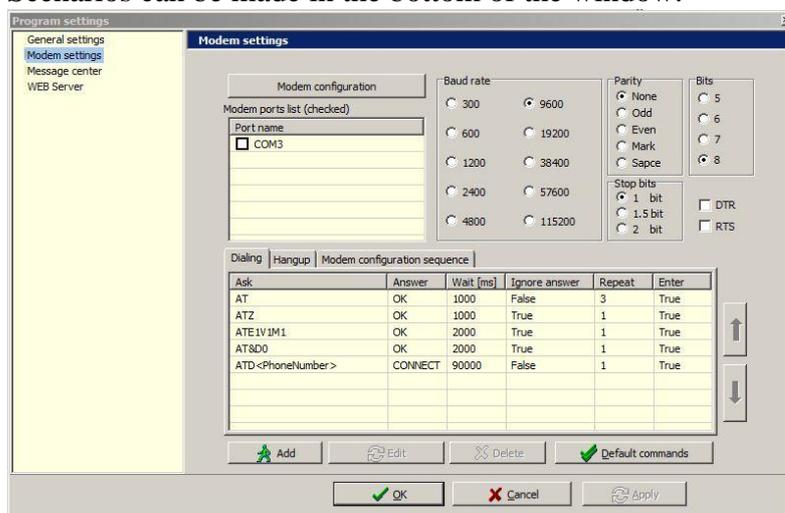
- „Received data from device write in data base“. All read data from devices saves in database.
- „Reading manually, the same type and serial number of the device, writes in existing device record“. If there is the same type and serial number, like currently reading, data is attributed to this device in data base
- „Don't receiving data if they exists in data base“. Interrupt the reading, if such data is readily available.
- „Show scan window, reading the manual“. Displays readed data when reading manually.
- „Change energy value units (MWh ->Gcal) for MBus protocol devices“. When reading devices by MBUS protocol, measurement units automatically converted from MWh to Gcal.
- „TCP server active (only for ENCO devices)“. Starts TCP server. This allows the program to retrieve data from remote Enco devices via the Internet .
- „TCP server port“. Sets the TCP server port that can connect to Enco devices.
- „Show TCP server receiving window“. Shows data received over a TCP server.
- „Automatic reading devices“. Switches on the automatic scanning of devices.
- „Automatic reading error, repeat“. Sets the number of times to try to retrieve the device if an error occurs.
- „Automatic reading error, repeat every min.“. Sets period of trying to read, if an error occurs.
- „Automatic reading error log“. Creates an error log.
- „Show references in the program“. When you move the mouse cursor on the program button, displays a hint.
- „Delete records older than ...“. Deletes all entries older than the specified date.
- „Compact database“. Compress database, and this increases the work performance.
- „Change names ... „, Change names.

Modem settings

This is window of modem settings.

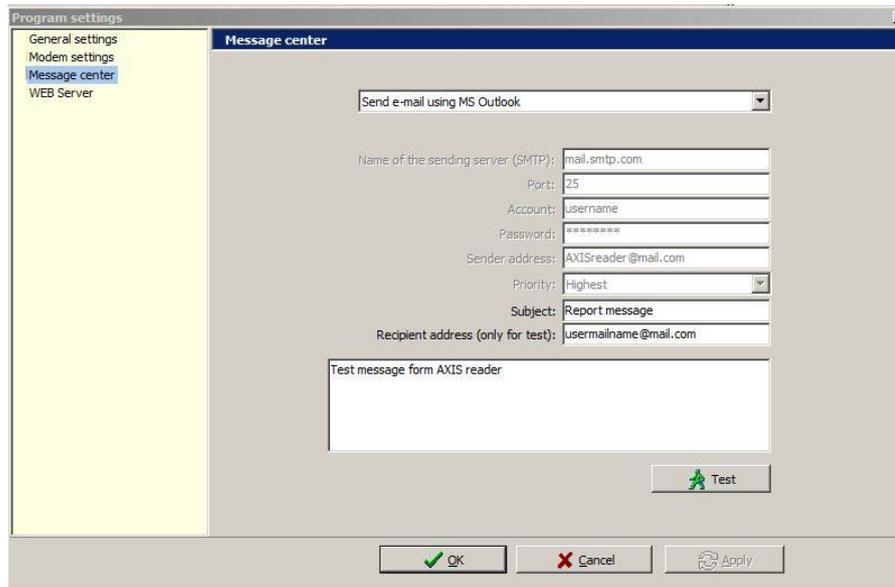
If the program will be used to collect data via modems, it is necessary to determine which interface to connect the modem and configure the correct settings.

Scenarios can be made in the bottom of the window.



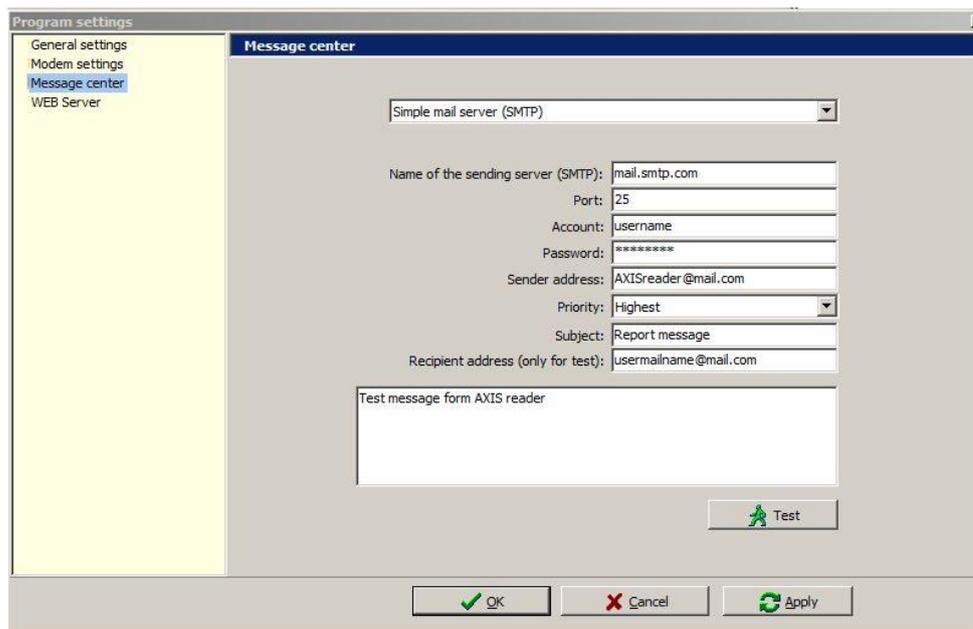
Message center

The window for reporting e-mail forwarding and configuration. If your computer is configured to work with program MS Outlook, do not have to do anything additional. To check if configuration is correct, you must enter the recipient's e-mail address (for testing only), and click "Test" button. If the letter is received at the address - everything is configured correctly.



The screenshot shows the 'Message center' configuration window. The left sidebar has 'Message center' selected. The main area has a dropdown menu set to 'Send e-mail using MS Outlook'. Below it are fields for SMTP server configuration: 'Name of the sending server (SMTP): mail.smtp.com', 'Port: 25', 'Account: username', 'Password: *****', 'Sender address: AXISreader@mail.com', 'Priority: Highest', 'Subject: Report message', and 'Recipient address (only for test): usermailname@mail.com'. A text area contains 'Test message form AXIS reader'. A 'Test' button is at the bottom right. At the very bottom are 'OK', 'Cancel', and 'Apply' buttons.

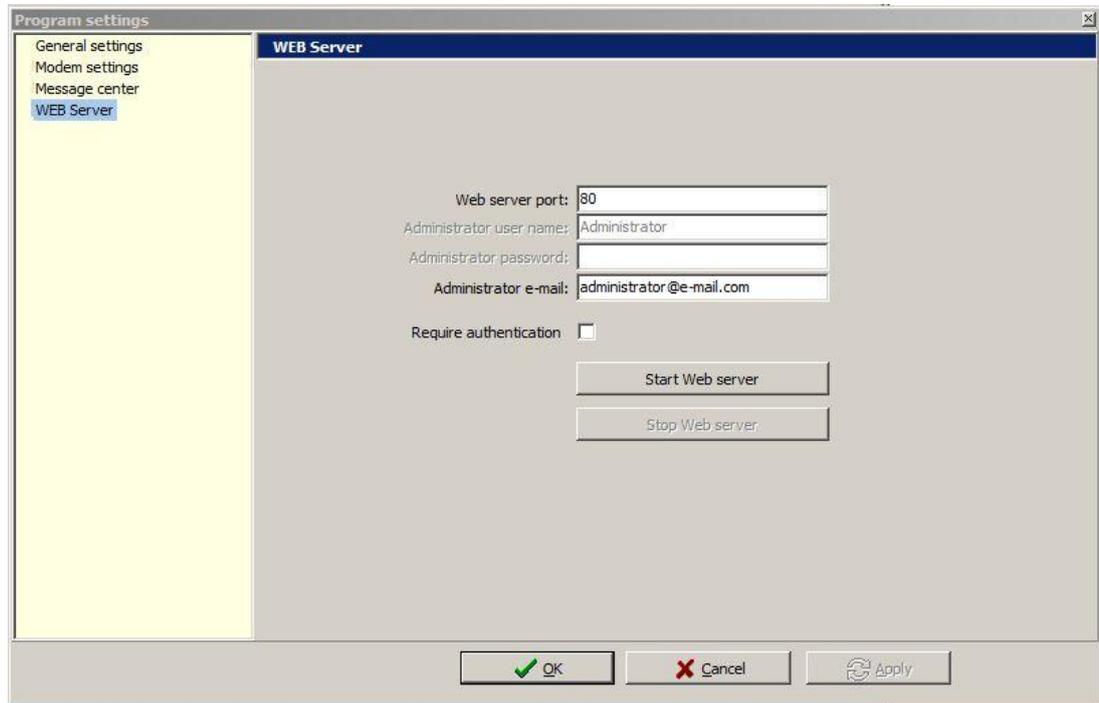
If you use the SMTP server settings input will look like this:



The screenshot shows the 'Message center' configuration window. The left sidebar has 'Message center' selected. The main area has a dropdown menu set to 'Simple mail server (SMTP)'. Below it are fields for SMTP server configuration: 'Name of the sending server (SMTP): mail.smtp.com', 'Port: 25', 'Account: username', 'Password: *****', 'Sender address: AXISreader@mail.com', 'Priority: Highest', 'Subject: Report message', and 'Recipient address (only for test): usermailname@mail.com'. A text area contains 'Test message form AXIS reader'. A 'Test' button is at the bottom right. At the very bottom are 'OK', 'Cancel', and 'Apply' buttons.

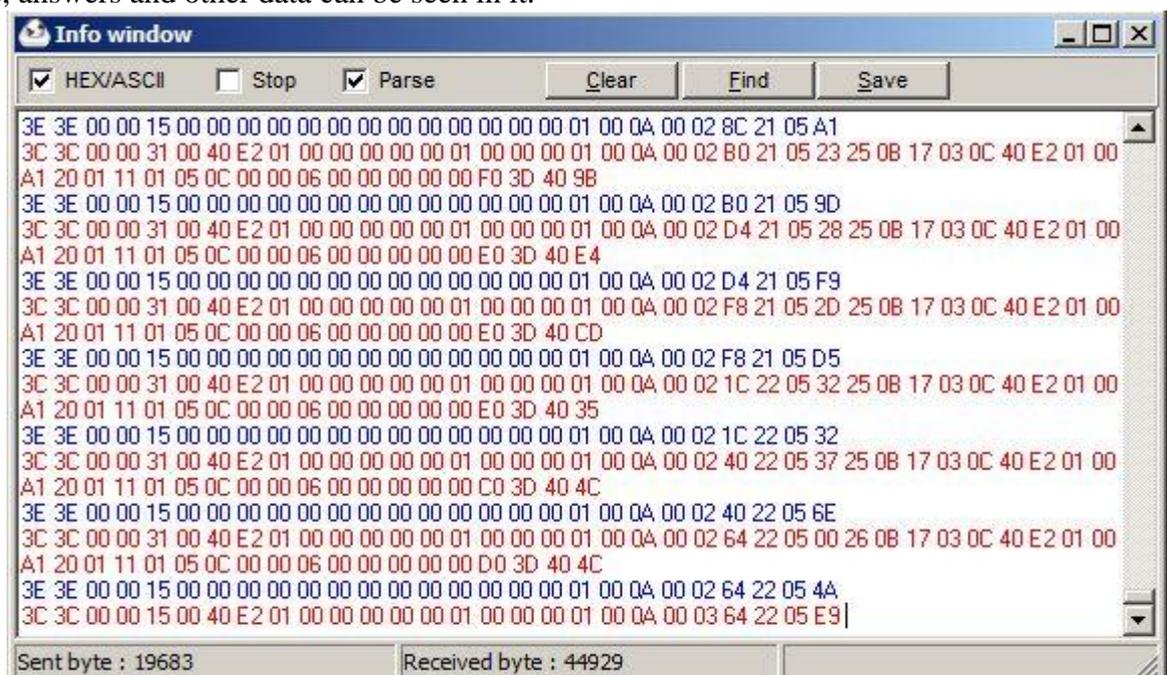
„Web server“

Program „Web server general settings. More about them [here](#).



Info window

To see the scanning process, you can turn on the information display window (Ctrl + D). Requests, answers and other data can be seen in it.



Clients list

Add new client

Pressing the button "Add client" or Shift + Ins opens window, through which adds a new client:

If the tick "Active User" is set, then the messages is automatically sent the user at a specified time or when automatic scanning devices.

Write in new client's name, which will be seen in the list.

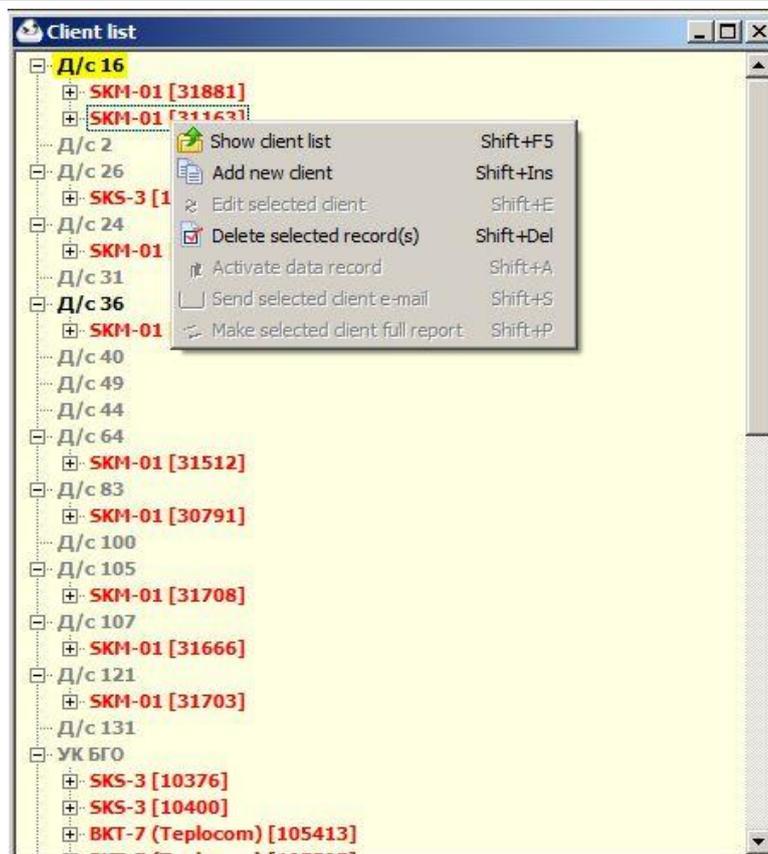
User name and password field is filled, to connect to „Web server“ via web browser.

Fields below is for sending e-mails configuration.

A list of devices and client list also opens in the background .

Show clients list

Pressing the button "Show client list" or the key combination Shift + F5 opens the window with a list of clients and devices assigned to them.



Users can be assigned to devices by simply selecting the desired device, and dragging it to desired client. Data type of data displayed is showed near assigned device. Data type can be activated or deactivated by pressing button "Activate data record" or using the keyboard shortcut Shift + A. Activated data type is displayed in blue and will be inserted in the report.

Green display attached device template.

Edit client data

Pressing the button "Edit selected client" or Shift + E opens window as you create a new user, but with the previously entered data.

Delete client

Selecting the desired client or device assigned to it and pressing the "Delete selected record(s)" or the key combination Shift + Del will delete the selected item.

Activate data record

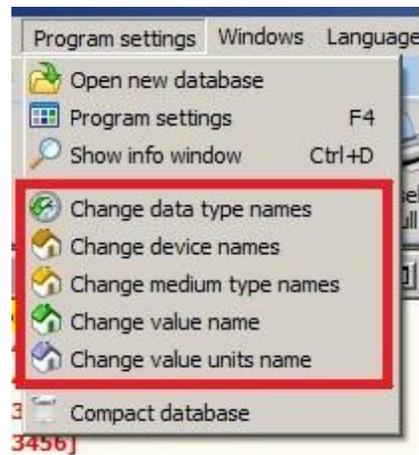
Data type can be activated or deactivated by pressing button "Activate data record" or using the keyboard shortcut Shift + A. Activated data type is displayed in blue and will be inserted in the report.

Send an e-mail

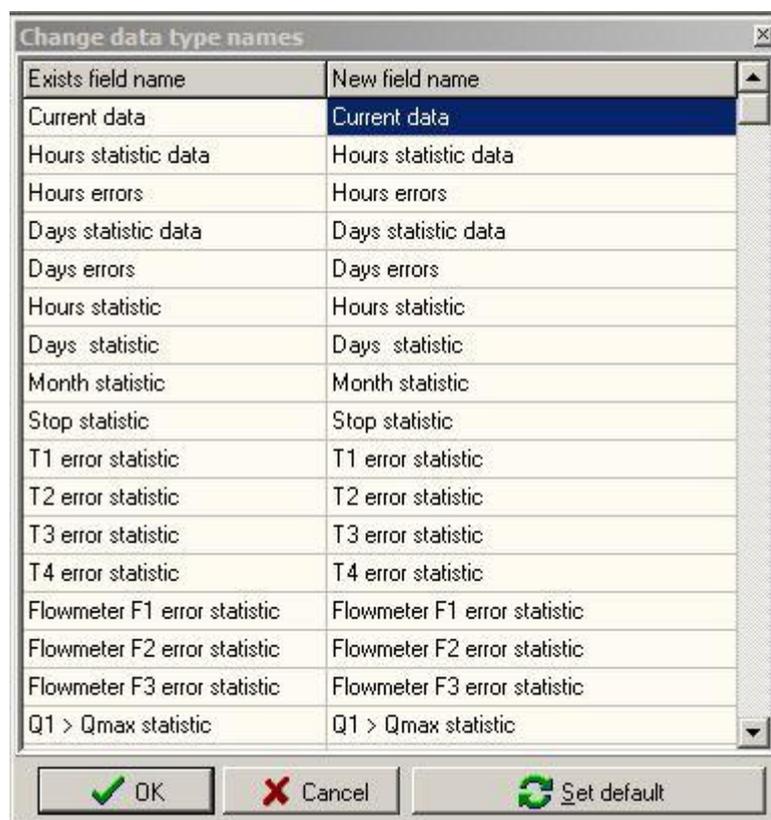
Clicking 'Send selected client e-mail' or the key combination Shift + S will form a report for the period to current time, and sent by e-mail, no matter, the client is active or not.

Changing names

Possible to change names to some you prefer better. This can be done by going to "Program Settings" and choosing the desired operation.



Clicking "Change data type names" opens a window where a left side shows the current name, and on the right side, you can enter any name you want. Entered items save by clicking „Yes“. To restore names, click "Reset".



The same procedure for changing other names: devices, media types, parameters and measurement units. Set parameters of devices, environment, and the names of the units of measurement is valid in „Axis Reader“ and “Web server“ program, and the parameter names only in „web server“ program.

License

Functions of programme depends on type of license you have.

License management can be done by pressing the "License management".

Your Personal Key [*****]

Activation code [8C4D835B236872C984B6556806FF13C7]

Enter your Personal License below

[Empty text field]

Registered. Expired date: 2022.03.21

Active device list

- SKM-1-M
- SKU-01
- SKU-01S
- SKU-01F
- SKM-01
- SKU-01M
- SKS-3
- SR-1
- MULTICAL® III
- M-Bus device
- SKU-4
- SKS-4
- BKT-7 (Teplocom)
- TEM-104 (APBAC)
- ENReader
- SKU-3
- TBA-1 (Dasu)
- TCPB-03X (Vzljot)
- "AXIS Reader" web server
- DK-3

For the first time introduced the program is running at full functionality, but for a limited 45-day trial period. After the trial period, it is necessary to register the program with the desired functionality.

To register the program, please send us an activation code and we'll generate a license key. After receiving a licence key, paste it into the field and confirm it. Then program starts to work with functions under license.

„About us“ and program updates

Clicking on "About ..." -> „About us“ opens window , showing the information about the producer and program update options.



Setting tick "Auto check new program version" will check whether there is a newer version of the program. Setting tick "Show DK3 firmware update warning window" will be checked for new data storage device DK-3 firmware.

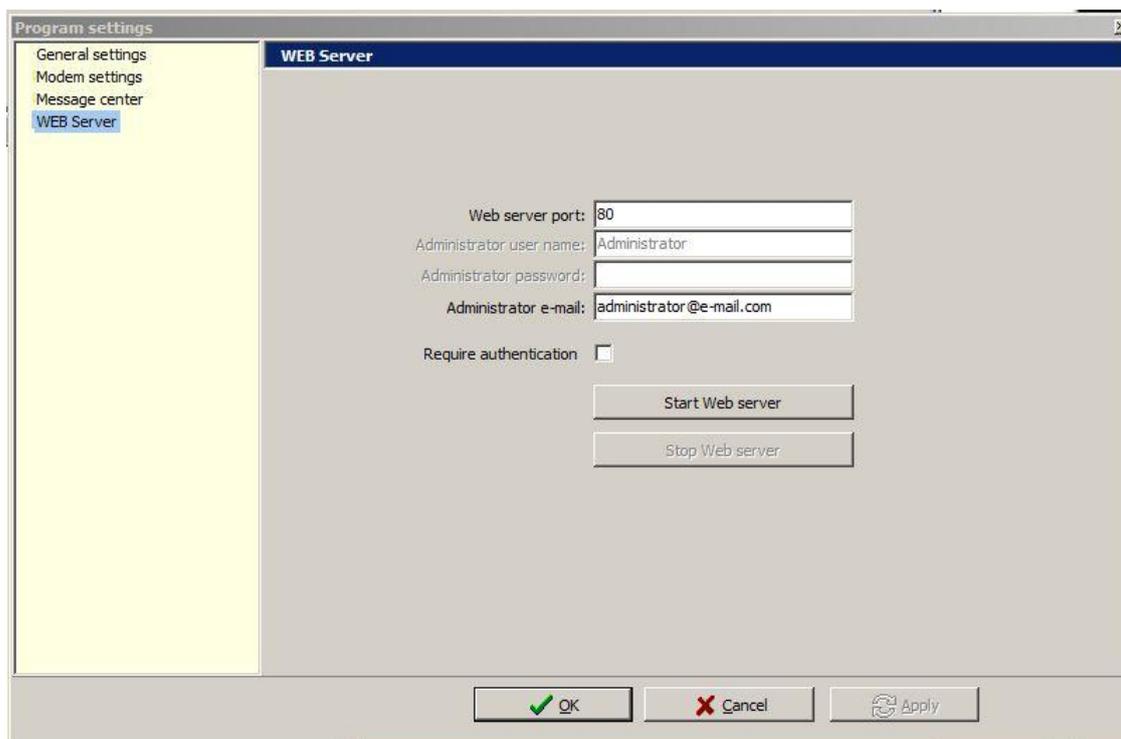
Click "Check new version" will manually check and report about the current version of the program.

Program „Web server“

Program web server is designed to display data via a web browser on your computer, joined a local network or the Internet connection.

Configuration

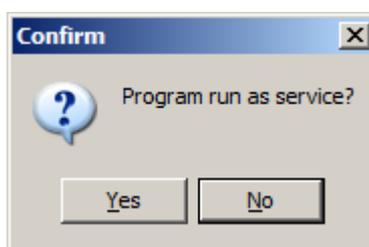
The main "web server" program settings can be changed in „Axis Reader“ program settings window tab „Web server“.



Select "Request Authorization" will allow to join only those users who are correctly configured „Axis Reader“, and administrator. Users see only their assigned devices and their data. The administrator will see all devices and data.

Clicking "start web server" will activate server.

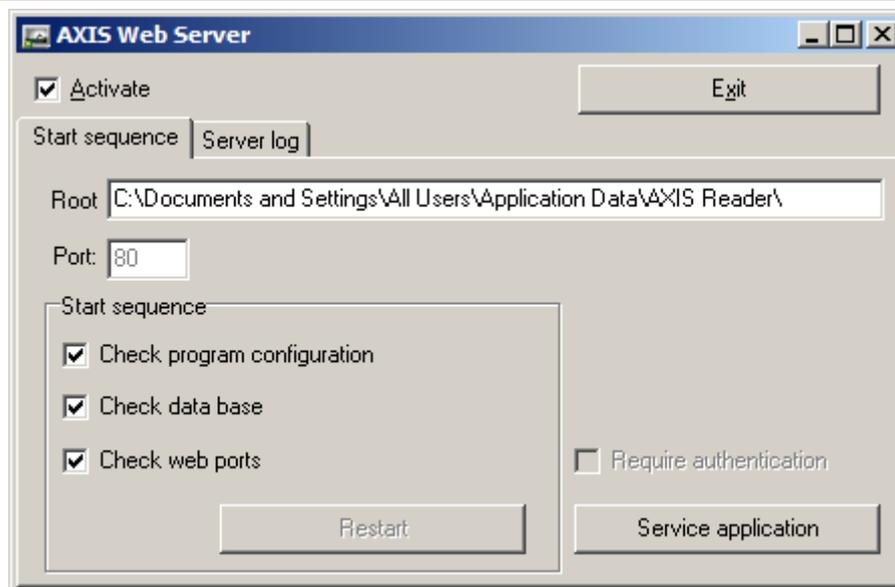
At program start-up asks what mode program will operate.



Icon near clock can be seen after startup:



Double-click on the icon opens a configuration menu.



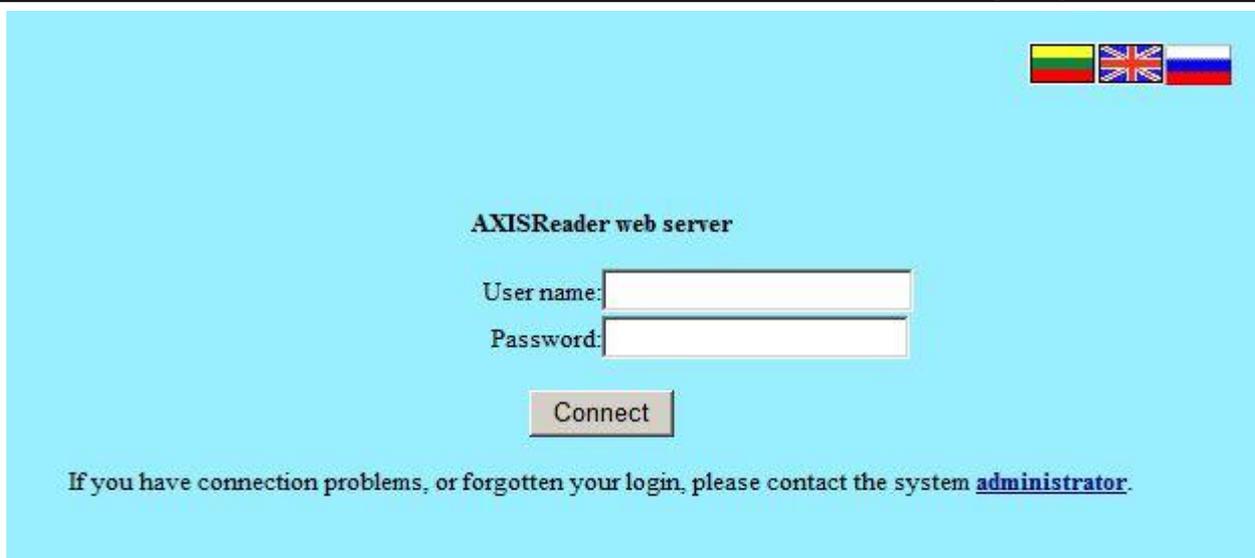
Connecting to web server

The Web server can be joined by entering existing IP address of the computer in web browser (i.e. <http://localhost/>, 10.12.3.64, 192.168.1.10 or 172.157.16.39). If you are using a firewall, it must be properly configured for this program. To ensure that the server is accessible via the web, you may need to configure a network devices and equipment.

If correctly connected, appears accumulated data:

Current data		Energy	Mass	Power	Flow	All parameters		Run time & status	Status
Hours statistic				T1,°C		Temperature		T1-T2,°C	
Days statistic		Time		T2,°C					
2011.05.23 15:39:40				67,68		54,51		13,17	
Month statistic									
Stop statistic									
Q1 < Qmin statistic									
T1-T2 < 3°C statistic									

If user authorization is active, attempting to connect to the Web server will require to enter your user name and password in browser:



In such cases the connection is only possible after success logging in, and only those devices can be seen which are assigned to the user. Online Administrator can view all data.

Data review

When connected to a server, devices and their data can be seen.

	Energy	Mass	Power	All parameters		Run time & status	Status
				Temperature	Temperature		
Current data				T1,°C	T2,°C		T1-T2,°C
Hours statistic				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
Days statistic	2011.05.23 15:39:40			67,68	54,51		13,17
Month statistic							
Stop statistic							
Q1 < Qmin statistic							
T1-T2 < 3°C statistic							

Select the data period, the data of interest (on the top of table) and the optional schedule or report review.

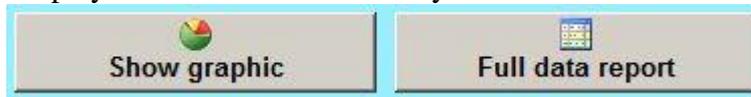
When choosing a data type, you can choose the data type of the group (energy, capacity, power, flow, temperature, time, status) by clicking on the top of the table of parameters. You can also select specific settings, placing ticks near the parameter name. Clicking on "All parameters" will again open all possible parameters.

Changing the display period, carried out by entering a date or choosing it in the calendar:



After changing the date, it is necessary to press the button "Change period", in order for data to be refreshed.

Display of data can be chosen by this buttons:



Selecting "Full Data Report" generates a report. The report generated by the settings selected in program "Axis reader".

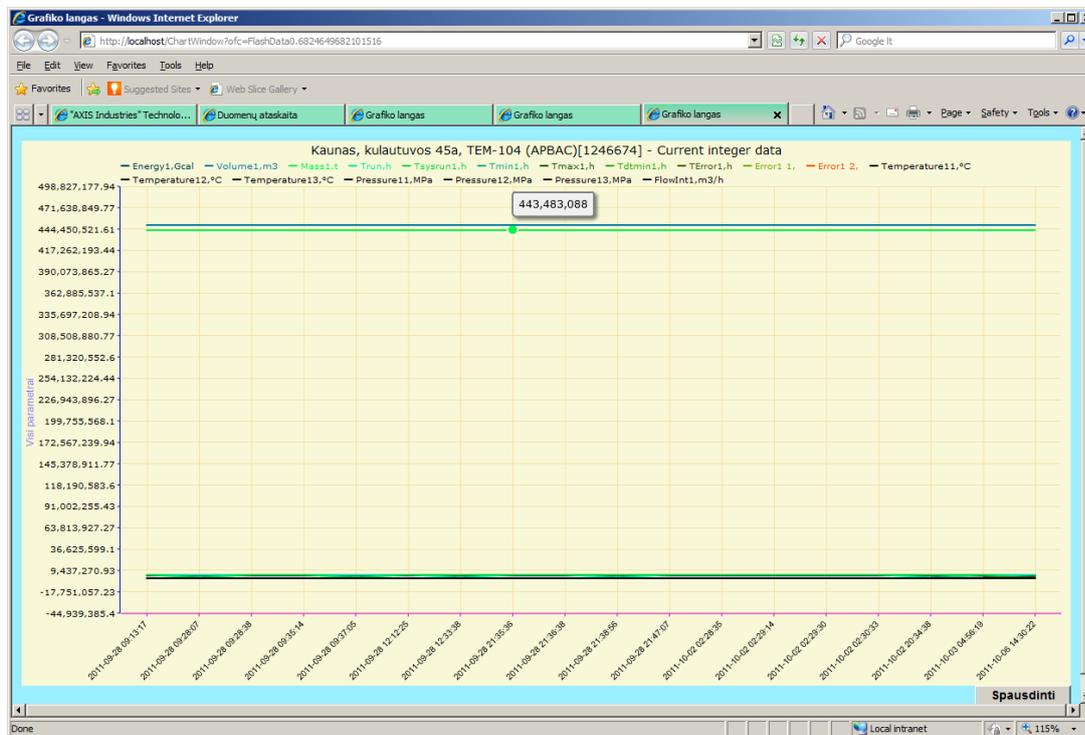
Ataskaita nuo 2011-09-28 iki 2011-10-06

Abonentas: Kaunas, kulinarijos 45A
 Adresas: TEM-104 (APBAC)
 Prietaiso numeris: 1246674
 Ataskaitos data: 2011-11-03

Duomenų sąrašas:

Time	Energy1_Gcal	Volume1_m3	Mass1_t	Trun_h	Tapsnus1_A	Tmin1_A	Tmax1_A	Tdmin1_A	TError1_h	Error1_t	Temperature11_C	Temperature12_C	Temperature13_C	Pressure11_MPa	Pressure12_MPa	Pressure13_MPa	FlowInt1_m3/h
2011-09-28 09:13:17	2988.846	449393.854	443432.0803816.771	3807.625	0	0	0	9.146	47	8018	0	0	0	0.9	0.5	0.4	0
2011-09-28 09:28:07	2988.846	449393.854	443432.0803816.998	3807.64	0	0	0	9.258	47	8018	0	0	0	0.9	0.5	0.4	0
2011-09-28 09:29:38	2988.846	449393.854	443432.0803817.006	3807.641	0	0	0	9.385	47	8018	0	0	0	0.9	0.5	0.4	0
2011-09-28 09:35:14	2988.846	449393.854	443432.0803817.105	3807.651	0	0	0	9.454	47	8018	0	0	0	0.9	0.5	0.4	0
2011-09-28 09:37:05	2988.846	449393.854	443432.0803817.134	3807.66	0	0	0	9.475	47	8018	0	0	0	0.9	0.5	0.4	0
2011-09-28 10:12:25	2988.846	449393.854	443432.0803819.736	3807.661	0	0	0	12.075	47	18	0	0	0	0.9	0.5	0.4	0
2011-09-28 12:23:38	2988.846	449393.854	443432.0803820.06	3807.671	0	0	0	12.389	47	18	0	0	0	0.9	0.5	0.4	0
2011-09-28 01:26:38	2988.846	449393.854	443432.0803829.072	3807.685	0	0	0	21.387	47	18	0	0	0	0.9	0.5	0.4	0
2011-09-28 01:36:38	2988.846	449393.854	443432.0803829.089	3807.686	0	0	0	21.403	47	18	0	0	0	0.9	0.5	0.4	0
2011-09-28 01:38:56	2988.846	449393.854	443432.0803829.12	3807.693	0	0	0	21.428	47	18	0	0	0	0.9	0.5	0.4	0
2011-09-28 01:47:07	2988.846	449393.854	443432.0803829.256	3807.696	0	0	0	21.56	47	18	0	0	0	0.9	0.5	0.4	0
2011-10-02 02:28:38	2988.846	449393.854	443432.0803829.929	3807.704	0	0	0	88.225	47	18	0	0	0	0.9	0.5	0.4	0
2011-10-02 02:29:14	2988.846	449393.854	443432.0803829.936	3807.704	0	0	0	88.232	47	18	0	0	0	0.9	0.5	0.4	0
2011-10-02 02:29:30	2988.846	449393.854	443432.0803829.941	3807.705	0	0	0	88.236	47	18	0	0	0	0.9	0.5	0.4	0
2011-10-02 02:30:33	2988.846	449393.854	443432.0803829.953	3807.711	0	0	0	88.242	47	18	0	0	0	0.9	0.5	0.4	0
2011-10-02 02:34:38	2988.846	449393.854	443432.0803829.02	3807.714	0	0	0	116.306	47	18	0	0	0	0.9	0.5	0.4	0
2011-10-03 04:36:19	2988.846	449393.854	443432.0803829.348	3807.725	0	0	0	124.613	47	18	0	0	0	0.9	0.5	0.4	0
8.2202	0.00	0.00	0.00	197116.04	0.00	0.00	0.00	196991.000.00	0.00	8000.00	0.00	0.00	0.00	9.00	5.00	4.00	0.00

Selecting "Graphic representation" generates data schedule:



Software package installation

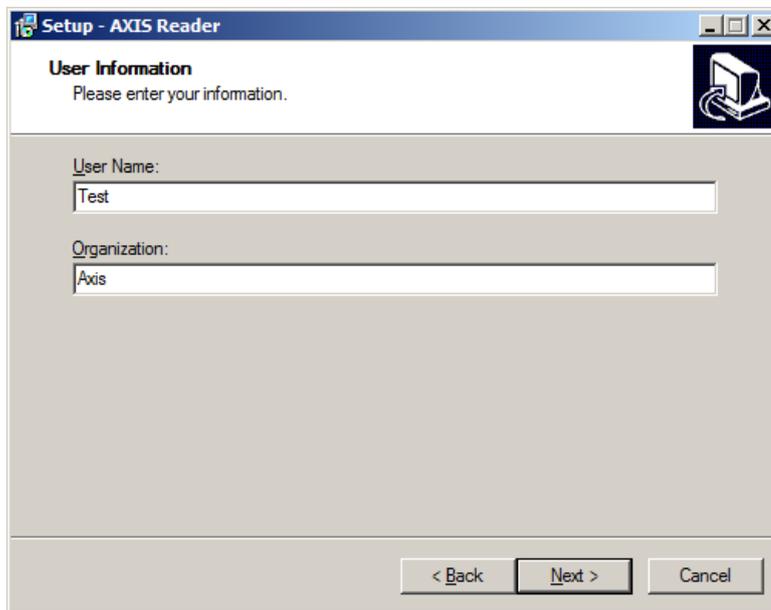
The programs are allowed to be installed by PC professional administrator.

Axis Reader program can be installed on your computer running the installation executable file „AXISReaderSetup_Vxxxxx.exe“

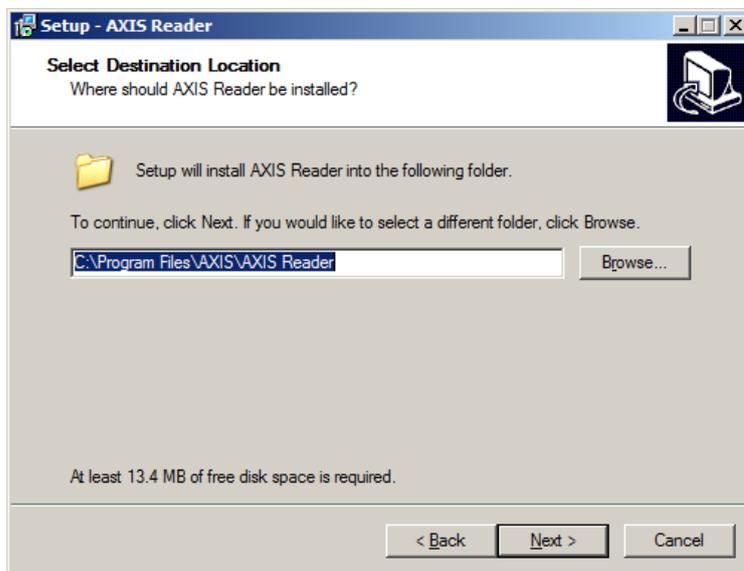
During installation, follow the installation wizard.



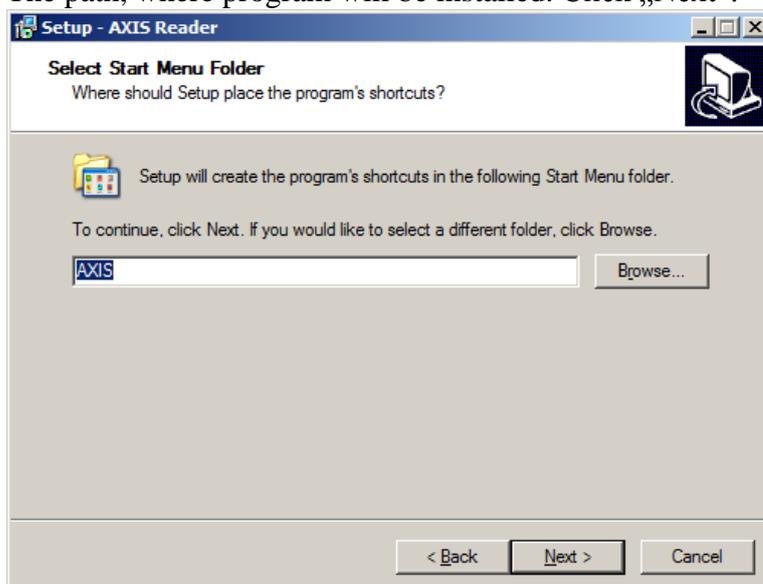
Click „Next“.



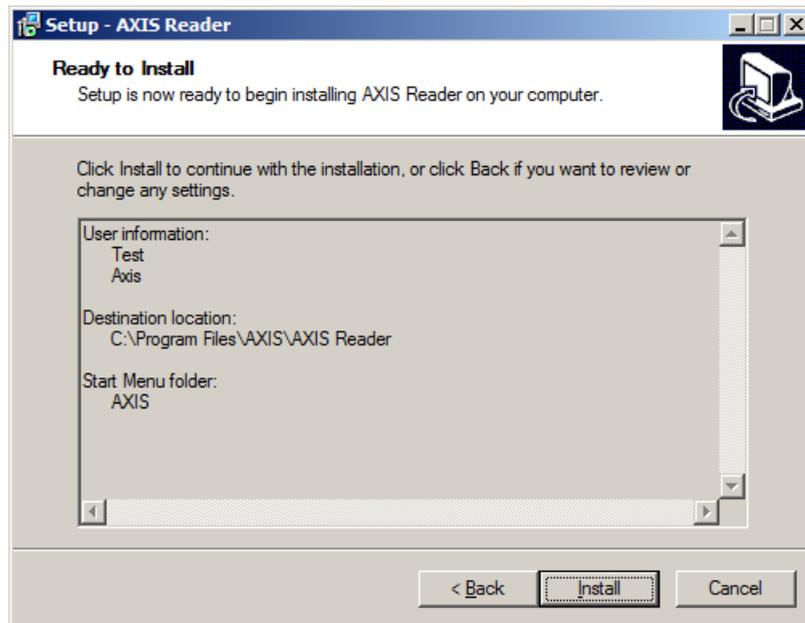
Click Next



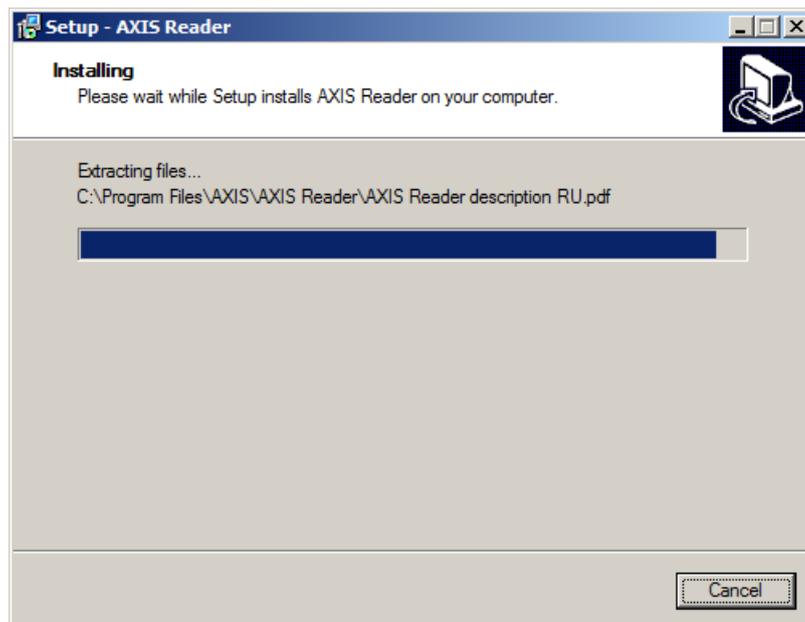
The path, where program will be installed. Click „Next“.



Enter the "Start" bar folder name, which will be included in the program launch icon. Click „Next“.



Shows all previously entered software installation settings. Click "Install". Wait until the program is installed.





Click „Finish“. Program installation is complete.

Manufacturer



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