

User's manual

AMSoft Paraset 1.0.8

Readout and parameterization software for electricity meter types AMS B2, AMT B0, B1, AMT B2

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1 Purpose and use

AMSoft Paraset is a program for the Windows operating system intended for setting the functions and parameters of the multifunctional static electricity meters of the company Applied Meters and at the same time to read the recorded data. The electricity meter with the hardware key allows to set the date and time. AMSoft Paraset runs under operating systems Windows 7, Windows 10, Windows 11. The program communicates with an electricity meter by using an optical probe or converters USB/RS485, USB/Mesh connected to a computer via USB port.

2 Program installation and starting

The entire program folder must be copied to the hard drive of the computer. If the folder is packed in a zip archive (the file extension is .zip) it is necessary to unzip the archive. The program is launched by double-clicking on the file icon **"App.exe"**, located in the main folder of the program.

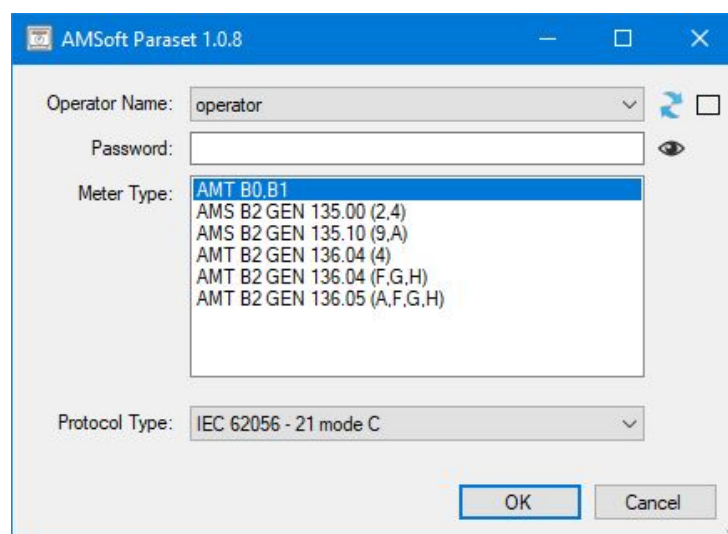
A licence is required to run AMSoft Paraset, issued by the manufacturer - Applied meters, a.s. The licence is associated with a specific PC (unique number).

2.1 Licence obtaining

When the program AMSoft Paraset runs for the first time (or the licence is invalid) the window **„Licence“** is displayed. The **"ID"** field contains the identification number of the application. This number needs to be sent to the manufacturer and a licence (serial number) can be obtained after complying with the terms and conditions. The received serial number must be entered in the **"Serial"** field and confirmed with the **"OK"** button. After successfully installing the licence, the application will not ask for a licence at the next launch.

2.2 Home screen

After launch, the splash screen will appear:



Contains the following:

Access level:

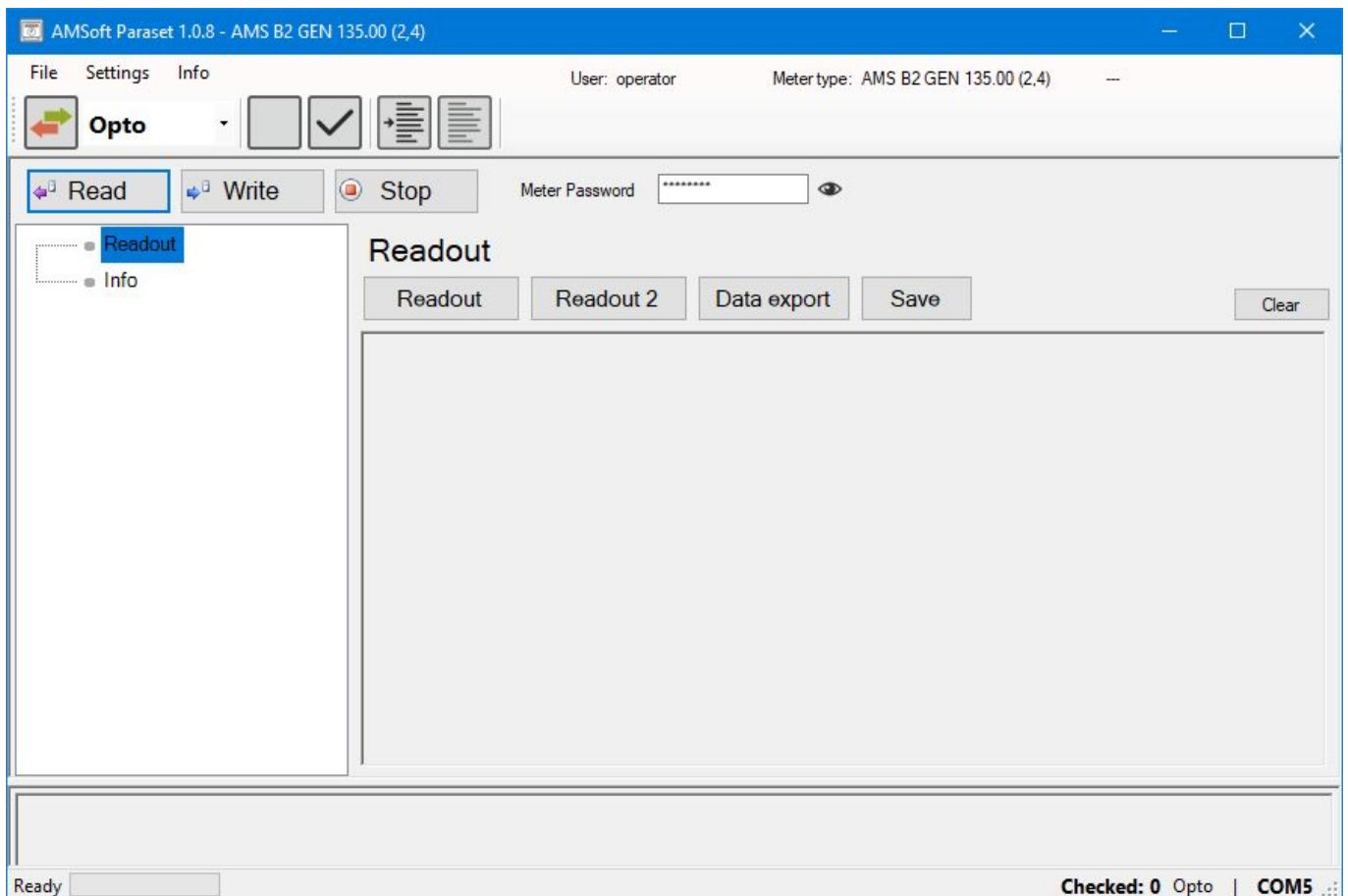
1. Operator ("Level 1" - without password) it is intended for simple reading of the electricity meter status. It only allows data reading from the electricity meter (readout).

2. Service ("Level 2" - required password for level 2) is intended for reading of the meter status, readout of recorded data (Events and Profiles) and setting the date and time of the electricity meter.

Electricity meter type: single-phase type AMS B2, three-phase type AMT B0, B1, AMT B2

In order to be able to run the software at a higher level than "Level 1", it is necessary to enter a password. Then press the **"OK"** button. If the password was entered correctly, the main window of the program will appear. If the password was entered incorrectly, the message **"The password is incorrect"** will appear.

The main window of the program:



3 Initial settings

3.1 Change of password

If necessary, the access password to the AMSoft Paraset program can be changed. Only own password can be changed and a minimum level of **"Level 2"** - Service is required. Click on **„Setting"** -> **„Change password"** in the main menu window (top left) a window for changing passwords will appear.



3.2 Change of program language

Changing the language of the program can be done through **"Settings"** -> **"Language"** and select the language.

3.3 Setting and selecting of the communication interface (COM port)

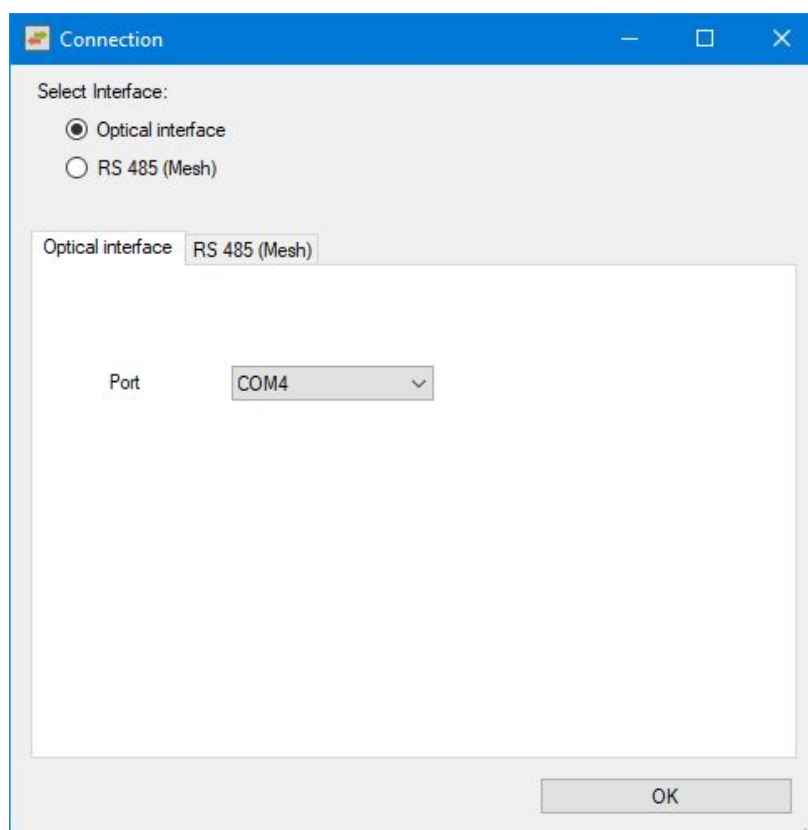
Communication with the meter is possible by using an optical probe, RS 485 line or a wireless (radio) connection Mesh, if the meter is equipped with them.

In order for the program to communicate, it is necessary to set the COM port. When connect a device (an optical probe, RS 485 converter) to USB port, the PC operating system will automatically assign the port No for the device.

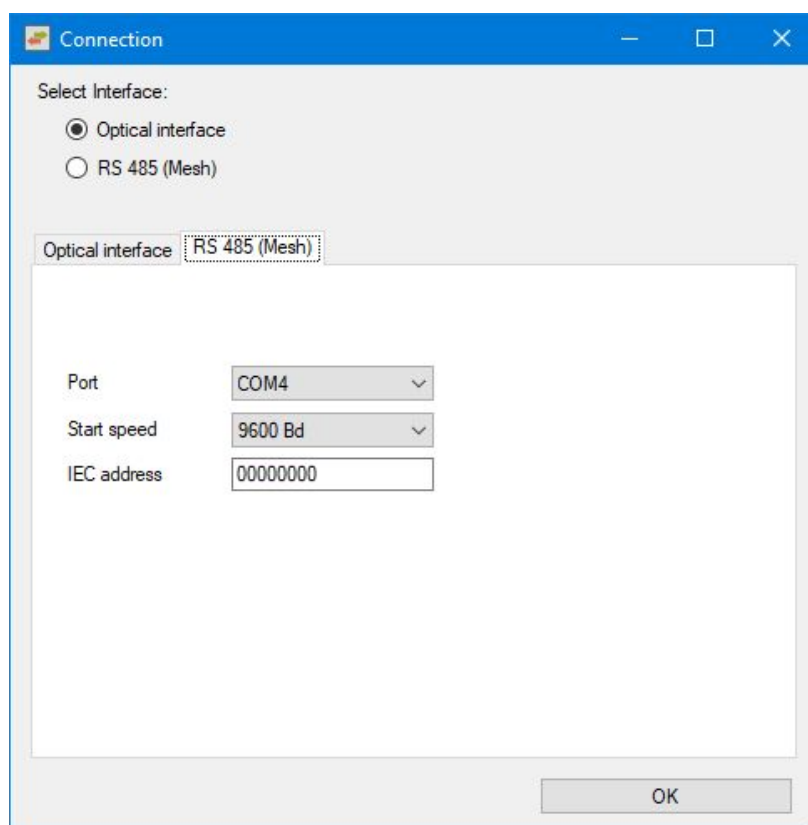
We get to the settings via the **"Connection"** button on the main program window.



The port setting for the optical probe, RS 485 line and Mesh is performed separately. At the Optical interface, only the COM port for the probe is set.



The optical communication starts with speed of 300 Bd and subsequently will switch to the proposed speed (default speed 9600 baud). For RS 485 (Mesh radio modules) it is possible to set the initial and the proposed speed, too. Both speeds are normally preset to 9600 Bd. The speed setting for the optical probe, RS 485 line and Mesh is performed separately.



4 Description of program functions



The toolbar contains:

1. The first panel button opens the communication settings
2. Quick switching of Opto/RS485 communication type
3. Unchecks all tree items
4. Marks all tree items that are markable
5. Performs Readout
6. Displays Readout

The main control buttons of the program located in the upper left:



With the **"Read"** button, the parameters of the electricity meter selected in the tree will be loaded, and they will be updated immediately.

With the **"Write"** button, the parameters of the electricity meter selected in the tree will be written.

The **"Stop"** button stops all program activities - writing and reading parameters, readout, events readout, reading profiles readout ...

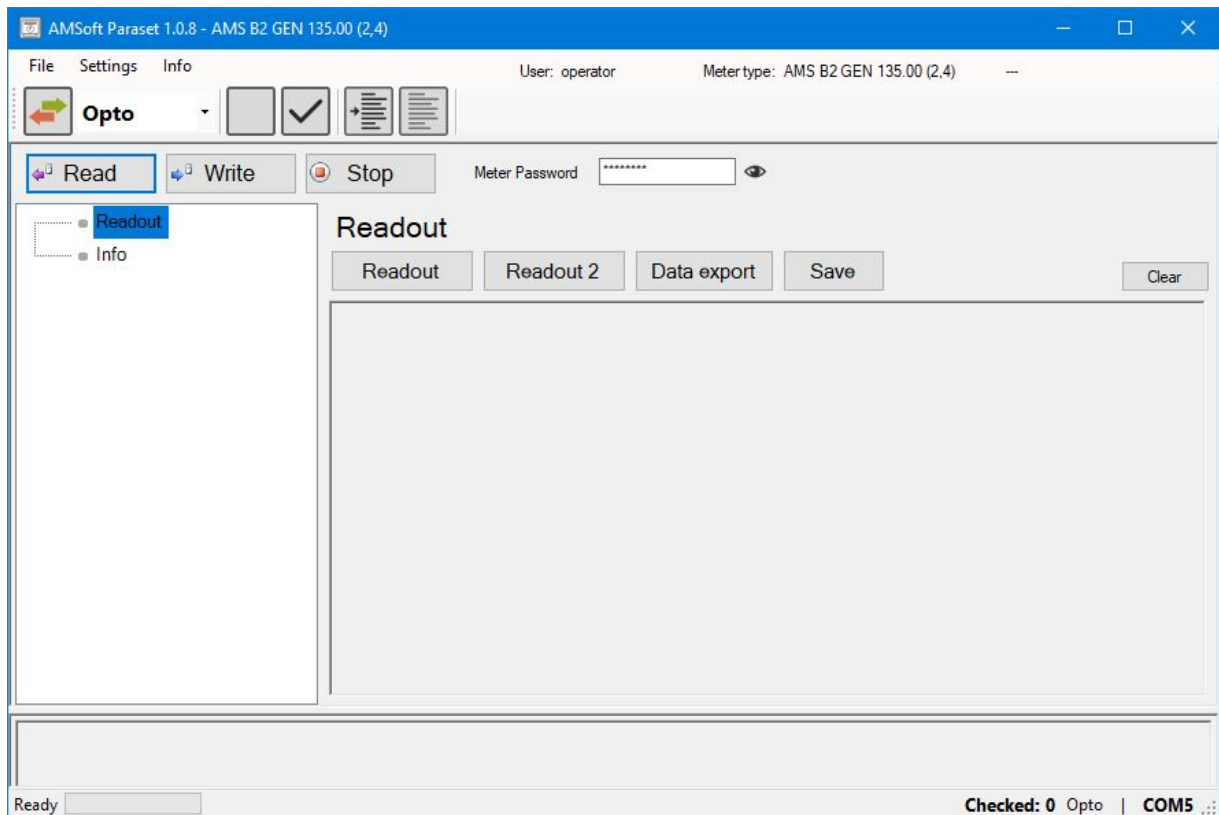
The functions of the program are arranged in a tree below each other:

1. **Operator** – Readout, Information
2. **Servis** - Readout, Information, Parameters of the electricity meter, which contains subcategories Date and time, Events and Profiles.

The tree contains categories, subcategories and items.

4.1 Readout

After clicking the cursor on the **"Readout"** tree item, the following window will appear:



The **"Readout"** / **"Readout 2"** button loads the data from the electricity meter and displays it in the field to the right (only the last 3 historical records / all historical records).

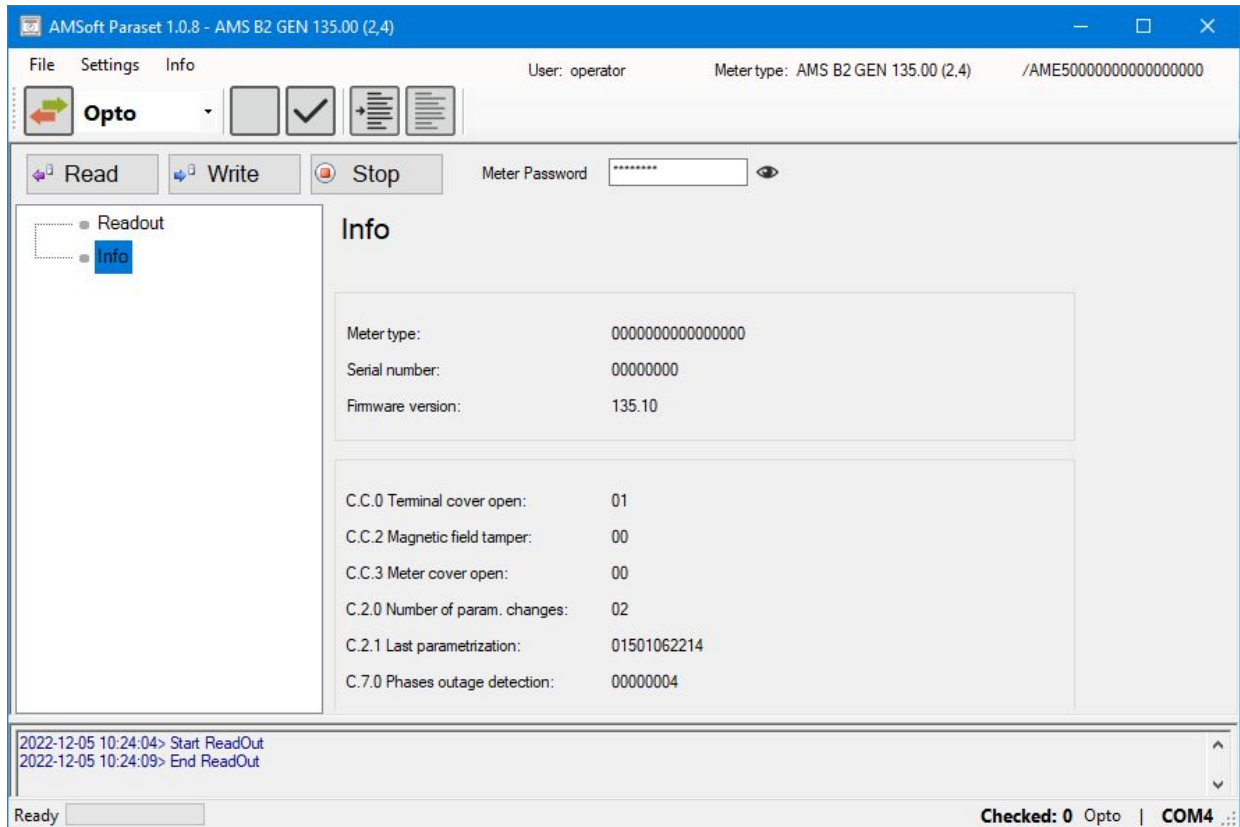
With the **"Save"** button, we save the read data in a text file on the hard drive of the computer.

The **"Delete"** button is used to delete the field to the right where the data from the electricity meter was read.

It is possible to stop readout from the electricity meter with the **"Stop"** button located in the upper left.

4.2 Info

After clicking the cursor on the **"Info"** tree item, the following window will appear:

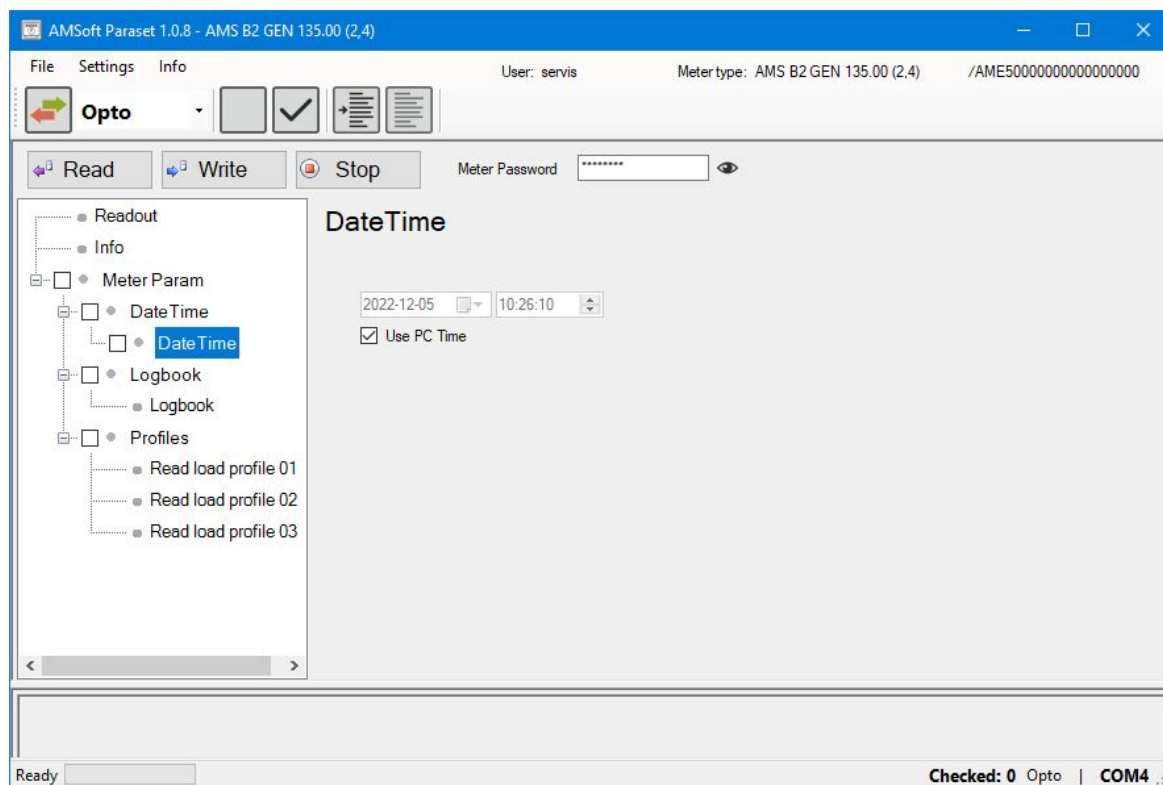


On the right side of the screen, the upper half is displayed: type of electricity meter, serial number, firmware version.

In the lower half, the disturbance registers, the number of parameter changes and the date of the last parameterization are displayed.

4.3 Date and time

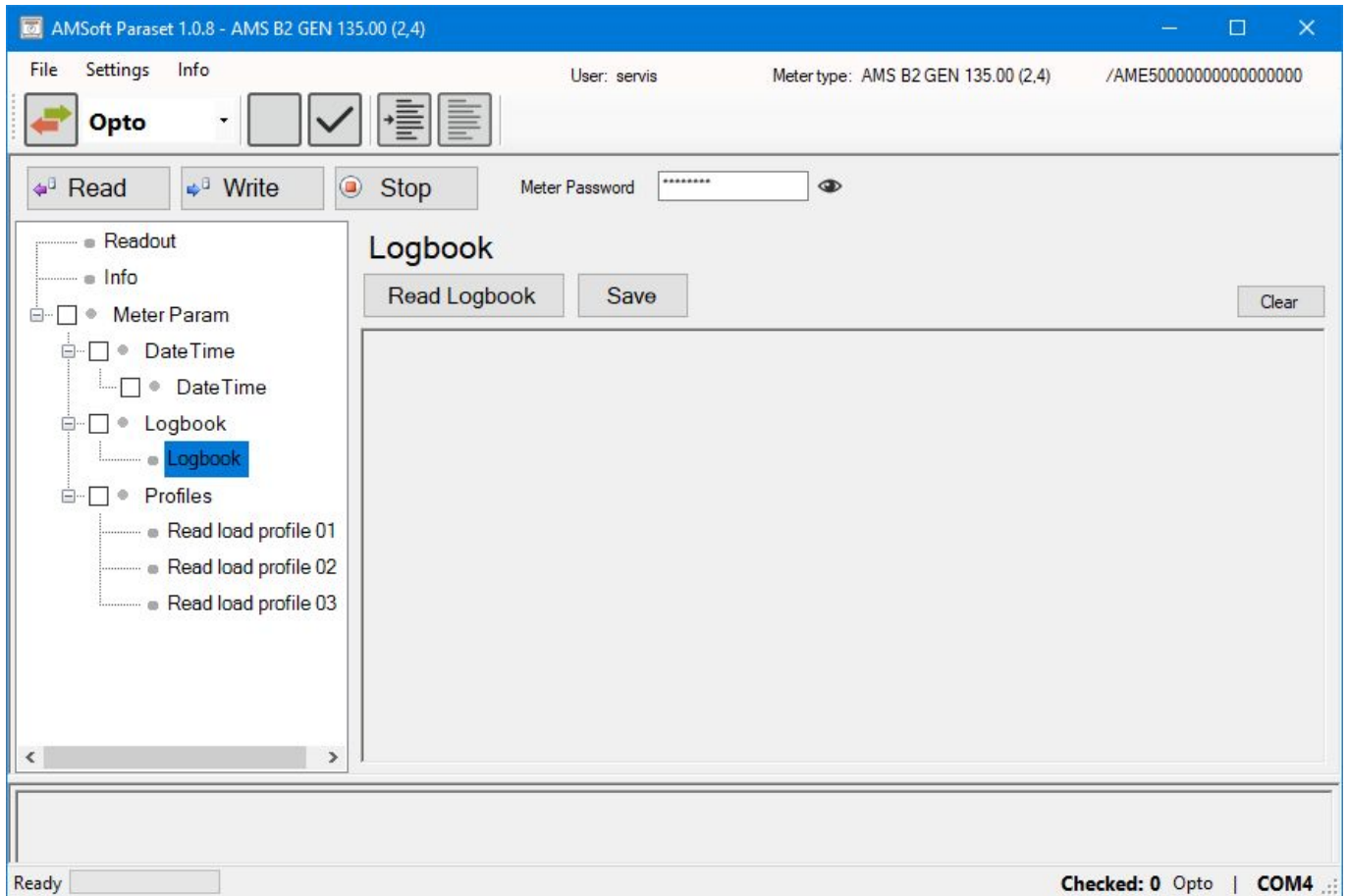
When click on „**Date and time**“ the following window will appear:



The date and time can be set manually or by downloading from the PC. The manual setting is activated if we unmark „**Use PC time**“. We save the setting by checking the appropriate box in the tree and pressing the "**Save**". Similarly, we can also read the value of the date and time from the electricity meter: the corresponding box in the tree must be checked and the "**Read**" button pressed.

4.4 Logbook

When click on „**Logbook**“, the following screen will appear:



Here it is possible to read and delete the logbooks.

The "**Read Logbook**" button loads the data from the electricity meter and displays it in the field to the right.

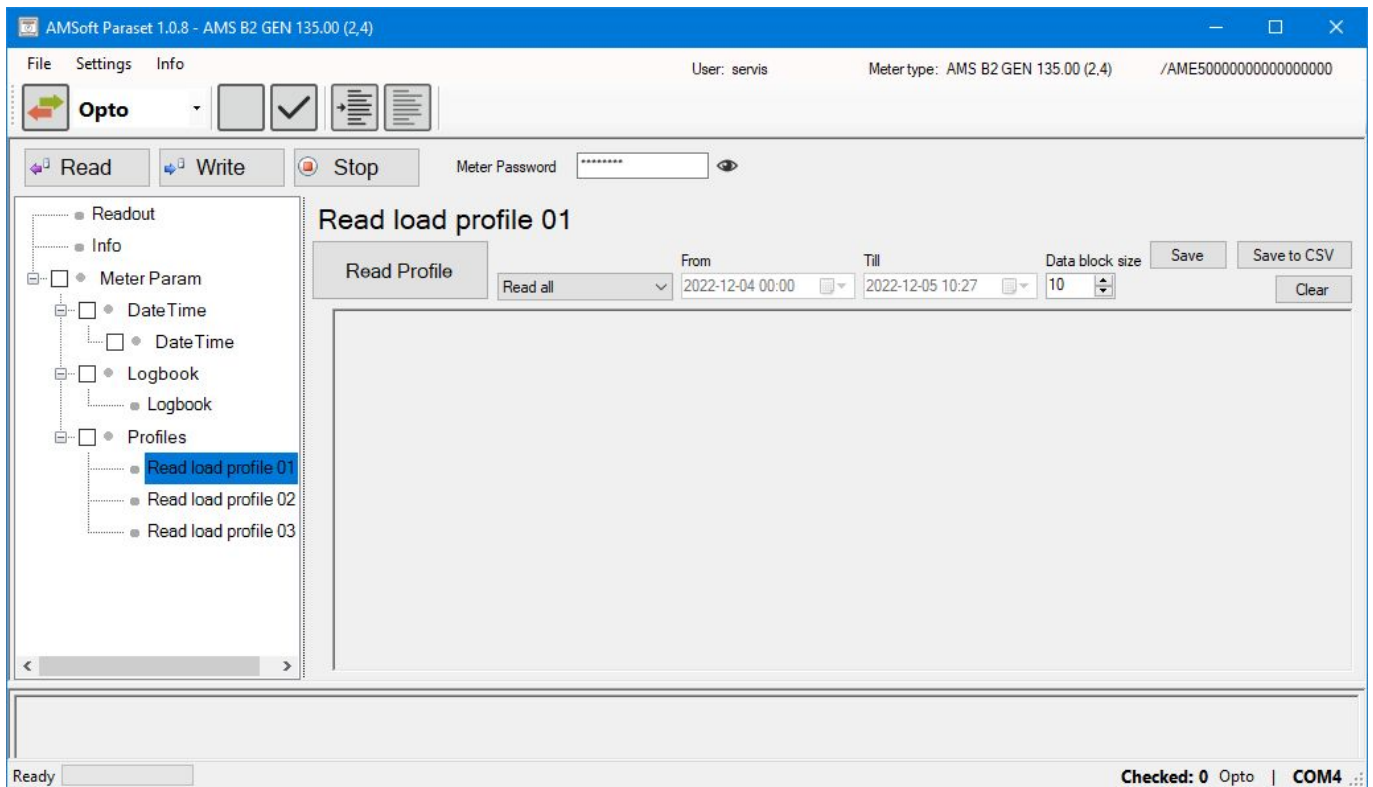
With the "**Save**" button, we save the read data in a text file on the hard drive of the computer.

The "**Delete**" button is used to delete the field to the right where the data from the electricity meter was read.

The readout of events from the electricity meter can be stopped with the "**Stop**" button located in the upper left.

4.5 Profile

After clicking the cursor on the tree item **"Read Load Profile 01"**, the following window will appear (the same for the items **"Read Load Profile 02"** and **"Read Load Profile 03"**):



With the button **"Read Load profile"** it is possible to read the corresponding profile from the electricity meter:

"Read all" – reads the entire profile

"Read by date" - select time period (From - To components)

"Data block size" - data is transmitted in blocks.

With the **"Save"** button, we save the read data in a text file on the hard drive of the computer.

With the **"Save to CSV"** button, we save the loaded data to a CSV file on the hard drive of the computer.

The **"Delete"** button is used to delete the field to the right where the data from the electricity meter was read.

The reading of the profile from the electricity meter can be stopped with the **"Stop"** button located in the upper left.