DATA COLLECTION SOFTWARE USER MANUAL FOR NE244 MODEL

This application returns the data on the operation performed by the battery charger, in particular it displays the latest 50 charging cycles made in terms of:
-date and time
-charge duration (number of steps performed and their duration)
-battery voltage at the beginning of the charging cycle
-quantity of charge supplied (Ampere/hour)
- performed charging algorithm
-any errors that occurred during the charging cycle
-etc..

To perform the downloading of data is necessary to connect the serial cable (cod. 2218.000.01) from one side to the battery charger and the other to the computer serial port as shown on Figure 1.

If your computer is not equipped with a serial port, is necessary to have a common USB-RS232 converter cable available at any computer store.

ATTENTION: FIRST CONNECT THE CABLE TO BATTERY CHARGER AND COMPUTER AND THEN SUPPLY THE BATTERY CHARGE WITH THE MAINS VOLTAGE.

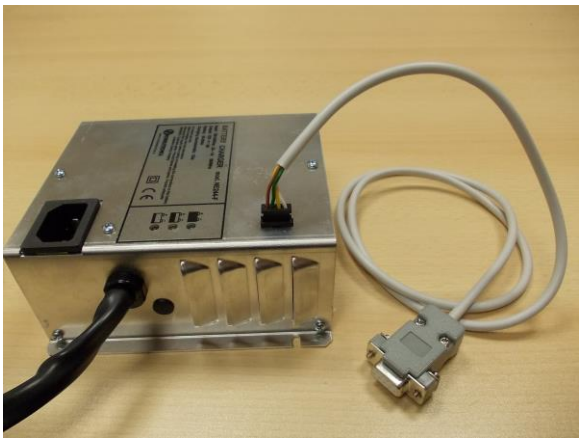


Figure 1

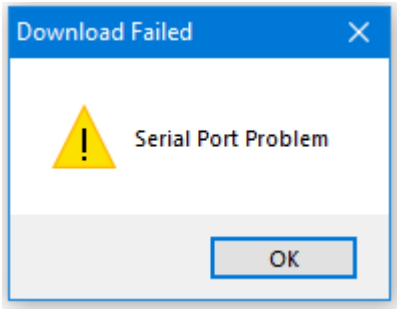
After running the program, the following screen appears:

1 Press the 'Search' button to search for COM ports connected to the computer.

2 Select the correct serial port number.

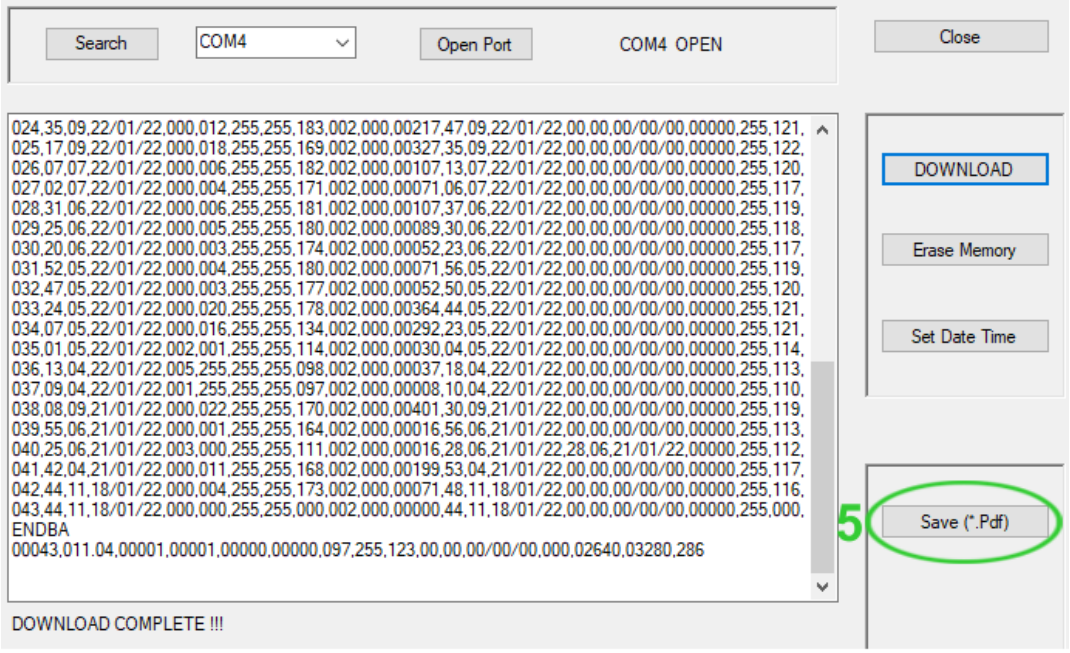
3 Press the 'Open Port' button to open the selected serial port.

4 Press the 'DOWNLOAD' button to download data from the battery charger.



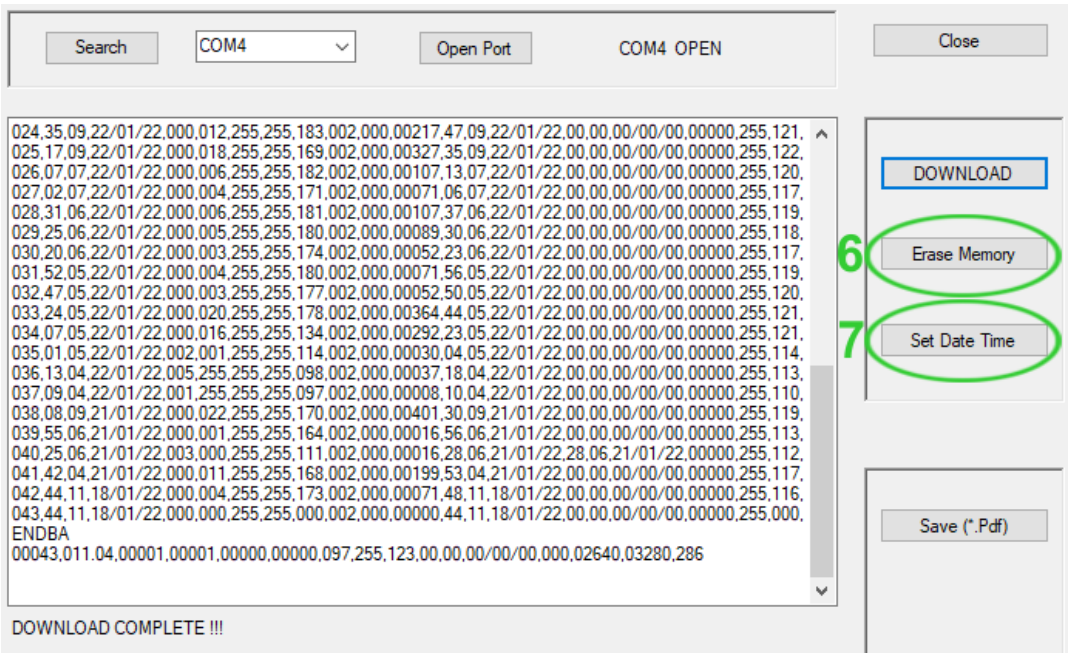
If this message appears, check that the port selected in step **2** is correct, otherwise wait a few seconds and repeat the download.

After about ten seconds, the following screen appears:



5 Now select the 'Save' button to save the data on your computer in Pdf-format, to the desired directory.

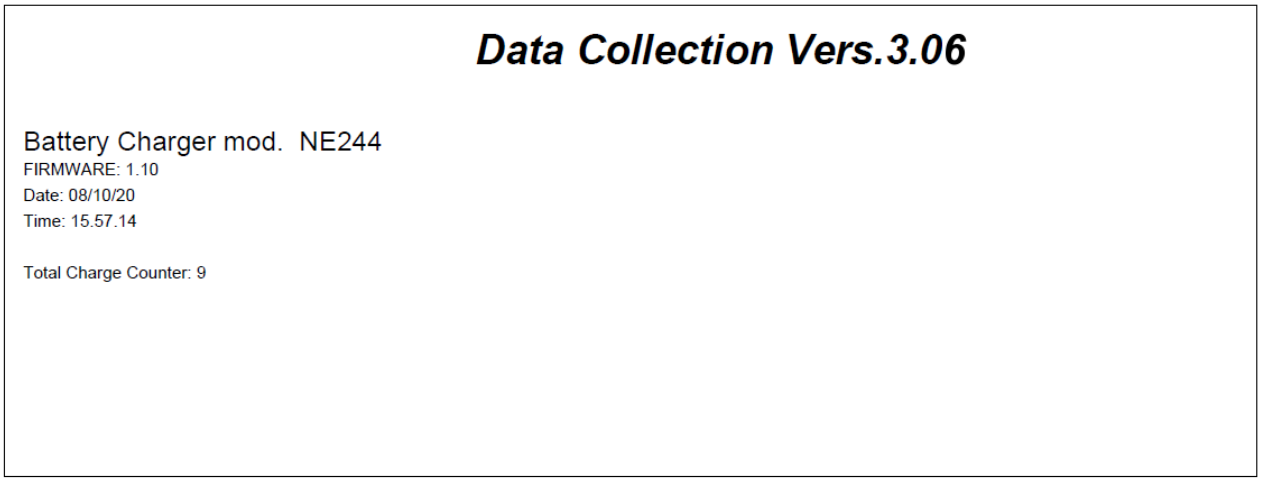
Then, on the same screen, you can reset the data memory as explained below:



6 The 'Erase Memory' button allows you to delete all data relating to the charging cycles performed by the battery charger. Attention: <u>It will no longer be possible to recover deleted data.</u>

7 Press the 'Set Date and Time' button to set the current date and time on the charger.
N.B. The date and time will be the one set on the computer.

DATA SUMMARY



The following data are displayed in the document header:

Battery Charger mod.: Battery charger model (example NE244)
FIRMWARE: Firmware version of the battery charger (example 1.10)
Date: Date of data download (example 08/10/20)
Time: Time of data download (example 15.57.14)
Total Charge Counter: General counter of charges made (example 9)

Index	Start time of charge	Start date of charge	Step 1 elapsed time	Step 2 elapsed time	Step 3 elapsed time	Completed charge	Battery Voltage before start	Ampere*Hour	Type charging profile	Alarm Temperature	Battery not connected	Output Short Circuit	Alarm Timeout	Alarm Charger
01	16:02	08/10/20	0h 0m				0.00	0.00	ALG3					
02	16:01	08/10/20	0h 0m				0.08	0.00	ALG3		X			
03	16:00	08/10/20	0h 0m				0.00	0.00	ALG3		X			
04	14:39	30/07/20	0h 0m				0.00	0.00	ALG3		X			
05	14:39	30/07/20	0h 0m				0.00	0.00	ALG3					
06	14:28	30/07/20	0h 0m				12.58	0.00	ALG3					
07	14:27	30/07/20	0h 0m				12.41	0.00	ALG3					
08	15:40	23/07/20	0h 0m				0.00	0.00	ALG3					
09	08:28	11/04/20	0h 0m				11.76	0.00	ALG3					

The table instead, shows the data for the last 50 charge cycles:

Index: represents an index for the charges made
Start time of charge: charging start time
Start Date of charge: charging start date
Step n elapsed time: duration of Step n
Completed charge: indicates whether charging has been completed
Battery voltage before start(Volt): voltage measured at start of charge
Ampere Hour: Ah charged during the charging cycle
Type charging profile: selected algorithm with dip-switch[1]
Alarm Temperature: the charger has exceeded the safety temperature
Battery not connected: indicates that the battery has disconnected
Output Short Circuit: a short-circuit occurred at the battery charger output
Alarm Timeout: the battery did not charge in the maximum expected time
Alarm Charger: an over-voltage or over-current occurred at the battery charger output

[1] See table below for reference:

S1	S2	Algorithm	Number of flashes of the green LED at switch on
OFF	OFF	(see instruction manual)	1
ON	ON	(see instruction manual)	2
OFF	ON	(see instruction manual)	3
ON	OFF	(see instruction manual)	4

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