

NONATEC Identification
And
Traceability Solution



User's guide for :

Nonatec Bluetooth LAB BENCH Reader/Writer

Nonatec PRO Software



TABLE OF CONTENTS

<u>I. LAB BENCH READER</u>	Page 4
1. General description	Page 5
2. Security	
A. FCC Requirements for USA	Page 5
B. IC Requirements for CANADA	Page 7
C. Temperature	Page 7
D. Electrical Power Supply	Page 8
E. Battery	Page 8
F. Lets protect our environment	Page 8
<u>II. LAB BENCH READER Quick Start</u>	Page 9
<u>III. LAB BENCH Bluetooth Reader/Writer</u>	Page 10
1. Bluetooth Key Setup	Page 10
A. Operating System Windows XP Service Pack 2	Page 10
B. Other Operating System	Page 10
2. LAB BENCH Reader / Writer Setup	Page 11
<u>IV. Nonatec PRO Software</u>	Page 13
1. Nonatec Pro Software Setup	Page 13
A. CD Installation	Page 13
B. First use of the Nonatec Pro Software	Page 13

TABLE OF CONTENTS

2. How to Use the Nonatec PRO software?	Page 15
A. General Presentation	Page 15
a. The "General" Menu	Page 15
b. The "Initialization" Menu	Page 16
c. The "Work in Progress" Menu	Page 17
d. The "History" Menu	Page 18
e. The " Universal Reading" Menu	Page 20
f. The "Maintenance" Menu	Page 21
g. The "?" Menu	Page 21
B. More Explanations	Page 22
a. To read a tag	Page 22
b. To Modify a tag	Page 23
c. To write a tag	Page 23
d. To print a document	Page 24
e. The database	Page 24
IV. FAQ and SUPPORT	Page 25
1. FAQ	Page 25
2. Contact	Page 26



I. LAB BENCH READER

1. General description



I. LAB BENCH READER



NEVER use the reader when the battery is being reloaded

Before the first use, completely reload the battery. First connect the plug to the reader, then connect the charger to the electrical power.

2. Security

To comply with FCC and Industry Canada RF radiation exposure limits for general population/uncontrolled exposure, this device must not be co-located or operating in conjunction with any other antenna or transmitter.

A. FCC Requirements for USA

Lab Bench Reader

WARNING TO USERS IN THE UNITED STATES

Federal Communication Commission Interference Statement 47 CFR Section 15.105 (b)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

I. LAB BENCH READER

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

NO UNAUTHORIZED MODIFICATIONS

47 CFR Section 15.21

Caution: This equipment may not be modified, altered, or changed in any way without signed written permission from LUTRONIC INTERNATIONAL. Unauthorized modification may void the equipment authorization from the FCC and will void the LUTRONIC INTERNATIONAL.

This device ARM READER complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

I. LAB BENCH READER

B. IC Requirements for CANADA

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that permitted for successful communication.

L'utilisation de ce dispositif est autorisée seulement aux deux conditions suivantes : (1) il ne doit pas produire de brouillage, et (2) l'utilisateur du dispositif doit être prêt à accepter tout brouillage radioélectrique reçu, même si ce brouillage est susceptible de compromettre le fonctionnement du dispositif.

Afin de réduire le risque d'interférence aux autres utilisateurs, il faut choisir le type d'antenne et son gain de façon à ce que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne soit pas supérieure au niveau requis pour l'obtention d'une communication satisfaisante. Cet appareil numérique de la classe B respecte toutes les exigences du règlement sur le matériel brouilleur du Canada.

C. Temperature

The maximum temperature for using this product is 40°C. (104°F)

I. LAB BENCH READER

D. Electrical Power Supply

The Power Supply should always be plugged in a source having the electrical features required. NEVER modify the line cord or the adaptor. Always use the power supply included with the Nonatec Reader. Other power supplies might not have the same characteristics; they might not be respecting the same security and performance standards.

E. Battery

The battery could explode if it is replaced by an incorrect type of battery.

Please completely reload the battery before using the reader.

F. Lets protect our environment

This reader is composed of many components that can be easily recycled.

Make sure it is given to an authorized company for recycling.

Users are invited to read the generals sales conditions.

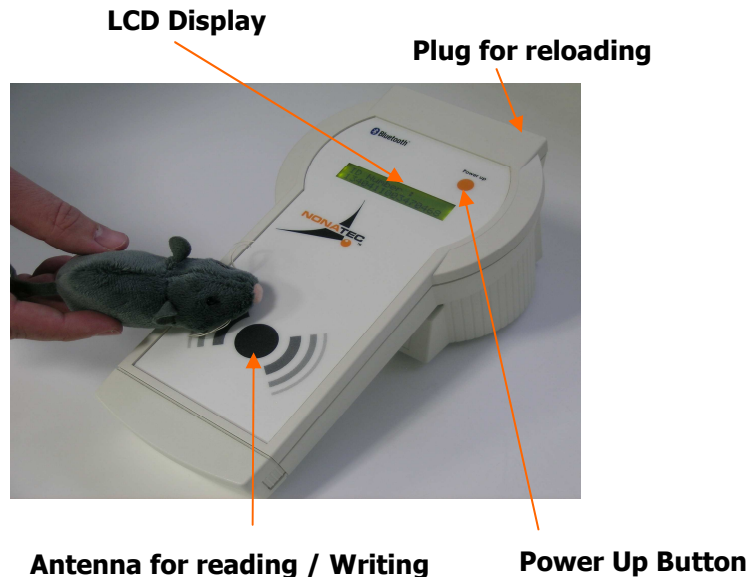


① Recycling the Battery

➤ The battery should be recycled by following the legislation.

It is not recommended to use the reader while being reloaded.

II. LAB BENCH READER Quick Start



Making a Quick Test with the Nonatec Bluetooth LAB BENCH Reader / Writer device

1. Click on « **Power Up** »
The following message should appear on the LCD Display:
« **LUTRONIC RFID NONATEC** »
2. After a few seconds, « **ID Number** » will appear
3. Scan the Nonatec transponder with the reader
4. The ID Number appears on the LCD Display
5. In order to switch on the backlight, press again on « **Power Up** »
6. To switch off the reader, press « **Power Up** » for 2 to 3 seconds.

NOTA:

When not used, the reader will automatically standby after 10 Minutes.

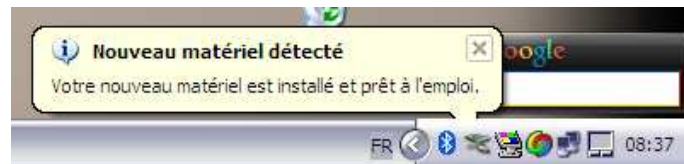
III. LAB BENCH Bluetooth Reader / Writer

1. Bluetooth Key Setup

A. OPERATING SYSTEM Windows XP Service Pack 2

- Plug the Bluetooth Key on any of the USB Port of your Computer. Your computer will automatically connect the key.
- Wait to see the following message:

« Your new device is ready to use »

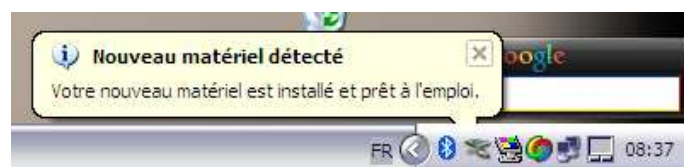


Then go to II.2: Lab Bench Reader / Writer Setup

B. Other OPERATING SYSTEM

- Launch the BlueTooth Key Installation CD.
- Follow the instructions
- Wait to see the following message:
-

« Your new device is ready to use »



Then go to II.2: Lab Bench Reader / Writer Setup

III. LAB BENCH Bluetooth Reader / Writer

2. LAB BENCH Reader / Writer Setup

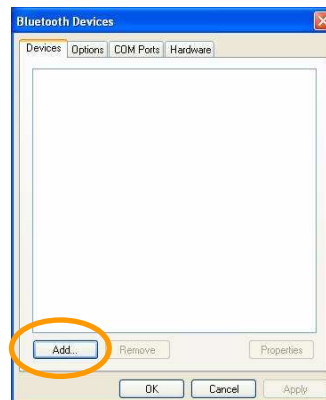
1. Plug the Bluetooth Key on any of the USB Port of your Computer.
The following icon will appear on the screen of your computer:



2. Switch on the reader by pressing « **Power Up** »
3. Double click on the Bluetooth Icon.



The following window will appear:



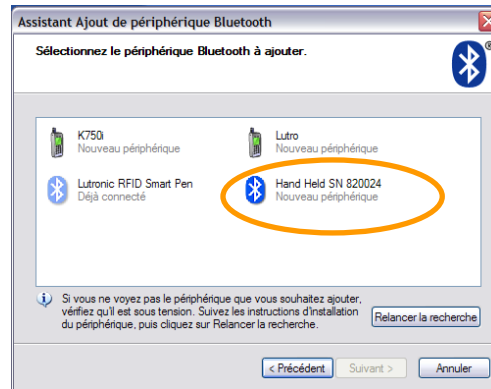
4. Click on « **add** »

5. Tick the box « **My device is set up and ready to be found.** » then click on « **Next** ».

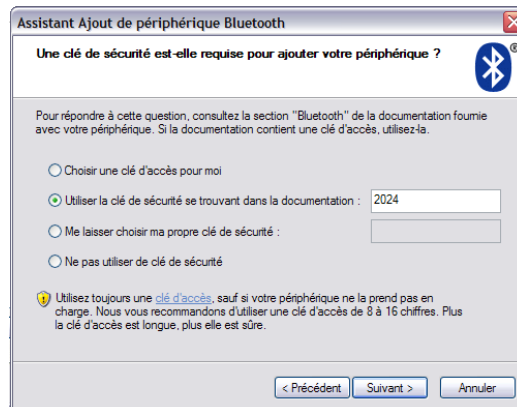


III. LAB BENCH Bluetooth Reader / Writer

- Wait for the research to end. Select the icon « *LAB BENCH SN 82XXXX* » and then, click on «*Next* ».



- Select « *Use the passkey found in the documentation* ». Enter the 4 last numbers of the Serial Number of your reader. Ex: « *0024* » then click on « *Next* ».



- Wait for the connecting process to end.
- Warning:** the Outgoing and incoming COM port should be set between 1 and 32, otherwise the reader will not connect to the computer. Refer to the Microsoft Windows assistance for more information, or contact the Nonatec after sales office.

IV. Nonatec PRO Software

To install the Nonatec Pro software, please make sure that you have the following component:

- A PC with Windows 2000 or Windows XP or Vista

1. Nonatec Pro Software Setup

A. Nonatec Pro Software CD Installation

1. Introduce the CD set up in your computer
2. The software should launch automatically. If not, launch it manually and select on the Nonatec Pro CD the file *Install_NONATECPRO_2.41.EXE*
3. Follow instructions given on the screen during the entire set up process.

Once this step is finished, the software is installed and ready to use, you can then proceed to the next step.

B. First use of the Nonatec Pro Software

1. Launch the Nonatec Pro Software by clicking on the icon.
2. The following window will appear:



For the first use, just click on « OK » the software will then launch.

IV. Nonatec PRO Software

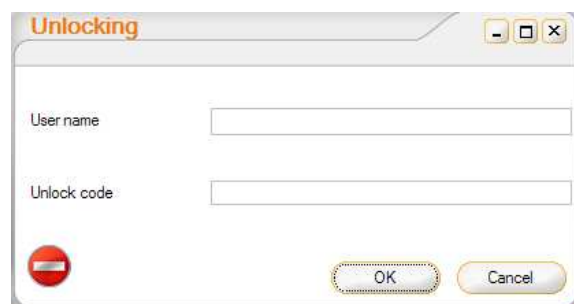
The Nonatec Pro Software front page will appear once you have launched the software.



As a security, the main functions of the software are locked when you install it.

To make all the functions of the available, you need to enter your unlocking code. Proceed as following:

1. Click on « ? ».
2. Select « *Unlocking Code* »
3. The following window will appear:



4. Enter the User name (Nom d'utilisateur) and the Unlock Code (Code de Débridage) that is given with the software. Nonatec Pro is now ready for use.

Have a great use of the NONATEC identification products!

IV. Nonatec PRO Software

2. How to Use the Nonatec PRO software?

A. General presentation

a. The "General" Menu



This pull-down menu is made up of 4 possibilities.

- **"Configure reports printing"**, which enables you to configure the printer.
- **"Configure labels printing"**, which enables you to configure the printing of labels if wanted.
- **"Configure the sound"**, which enables the user to set the sounds of NONATEC PRO.
 - ⇒ For instance, you will be able to choose the "emitting" of the sound during the reading and the writing of a tag and the sound in itself during both the RFID Reading and RFID Writing.
- **"Configure Universal reading"**, which enables you to configure the Universal reading. The Universal Reading is used to save the transponder identification number on any other software (ex: Microsoft Excel...),
- **"Operators"**, which is a fact sheet concerning the different users of the software,
- **"Language"** which enables you to select your language.

IV. Nonatec PRO Software

b. The "Initialization" Menu



This menu has a sole option **"Structure of the data"**, which enables you to customize your data base.

For example:

- You will be able to choose, according to your needs, the headings in which you are interested by simply notching the right boxes.
- You will also be able to personalize the wording of these headings as well as the type of the data (hour, date...).

[illegible]

IV. Nonatec PRO Software

c. The "Work in Progress" Menu



This menu is composed of two options.

- The **"List box"**, which is a table with various headings, related to the experimentation environment. Thanks to this tool, you will be able:
 - ⇒ To read the data contained in the tag,
 - ⇒ To rewrite and add new data on the tag, but also modify or delete former data,
 - ⇒ To store a subsequent amount of data related to your current experimentations,
 - ⇒ To print out codes bars corresponding to the unique and universal number of the tag for a better traceability,
 - ⇒ To archive data you will use later.

A screenshot of the 'Work in progress' window in the Nonatec V2 Software. It displays a table with 11 columns: Tag identification number, Date of the operation, Hour of the operation, Type of the operation, Source info, Status, Short Name of the operator, Database Identification Number, Experiment number, Quantity, and Next step schedule th. The table contains 15 rows of data, mostly for 'Writing' operations on 08/11/2007. The last row is for a 'Reading' operation on 16/10/2007. To the right of the table is a toolbar with buttons for New, Modify, Remove, Read, Write, Labels, Print, Archive, and Close. The 'Write' button is highlighted.

Tag identification number	Date of the operation	Hour of the operation	Type of the operation	Source info	Status	Short Name of the operator	Database Identification Number	Experiment number	Quantity	Next step schedule th
1 322 732 918 080 132	08/11/2007	16:38	Writing			Writing MAT	7873627765675675	33.00	2.00	12/C
1 346 646 493 954 688	08/11/2007	16:39	Writing			Writing MAT	2972198072137634	3 214.00	3.00	21/C
1 252 299 749 393 024	08/11/2007	16:38	Writing			Writing MAT	2332445467476970	12 431.00	324.00	12/C
1 242 429 914 546 816	08/11/2007	16:39	Writing			Modified MAT	9082309886765499	234.00	324.00	04/C
1 252 308 338 327 616	08/11/2007	16:39	Writing			Writing MAT	E211286761276576	213.00	23.00	02/C
1 318 037 716 796 032	08/11/2007	16:39	Writing			Writing MAT	2342342345456477	234.00	234.00	31/C
1 313 932 530 090 628	08/11/2007	16:39	Writing			Writing MAT	9843767256423423	29.00	324.00	23/C
1 260 833 047 380 608	08/11/2007	16:37	Writing			Writing MAT	0987654326478909	6.00	8.00	07/C
1 168 680 229 077 632	08/11/2007	16:38	Writing			Modified MAT	8976545678908765	6.00	8.00	07/C
1 264 140 172 198 528	08/11/2007	16:38	Writing			Writing MAT	0987654324567890	7.00	56.00	07/C
1 303 692 526 027 392	08/11/2007	16:37	Writing			Writing MAT	1098765432112345	7.00	7.00	07/C
1 263 036 365 603 456	08/11/2007	16:38	Writing			Writing MAT	0987654321234567	43.00	4.00	07/C
1 279 498 975 249 024	08/11/2007	16:37	Writing			Writing MAT	765678765456780	32.00	3.00	07/C
1 302 602 408 198 784	16/10/2007	15:44	Reading			NONA#		0.00	0.00	

IV. Nonatec PRO Software

- The **"One by one"** option, which corresponds to a sheet follow up record.
 - ⇒ This sheet is an individual card in which you will be able to find all the data extracted from the transponder,
 - ⇒ You will also be able to write all your remarks and observations thanks to a writing pad system.

The 'Work sheet' window displays the following fields and options:

- Operator short name: **MAT**
- Identification number of the tag: **1 252 299 749 393 024**
- Operation: ☒ Reading ☐ Writing
- Date: **08/11/2007**
- Hour: **16:38**
- Gender: **Male**
- Experiment Conditions: **Night**
- Database Identification Number: **2332445467476970**
- Experiment number: **12 431.00**
- Quantity: **324.00**
- Next step schedule the: **12/04/2008**
- Duration of the Experiment: **00:00**
- Mouse Colour: ☒ Black ☐ Grey ☐ White
- Notepad: A large text area for writing remarks.

On the right side, there is a toolbar with buttons: New, Duplicate, Delete, Apply, Read, Write, Print, and Close.

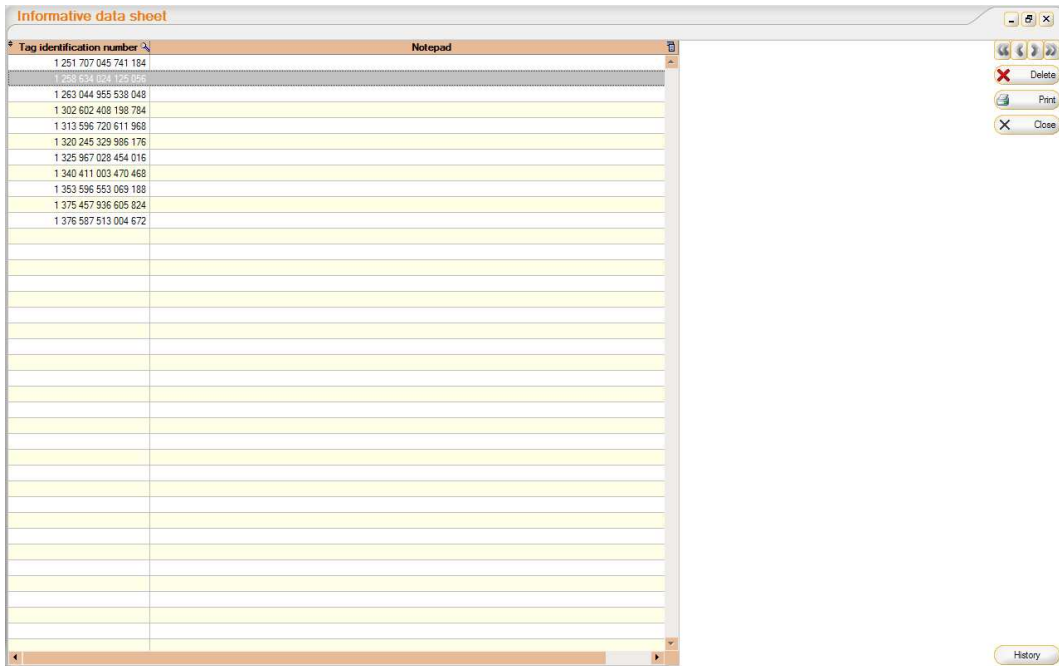
d. The "History" Menu



IV. Nonatec PRO Software

This menu includes two options:

- The « **Datasheet** », which corresponds to a memo pad.
 - ⇒ In this table you will be able to write all your remarks and observations for each tag.

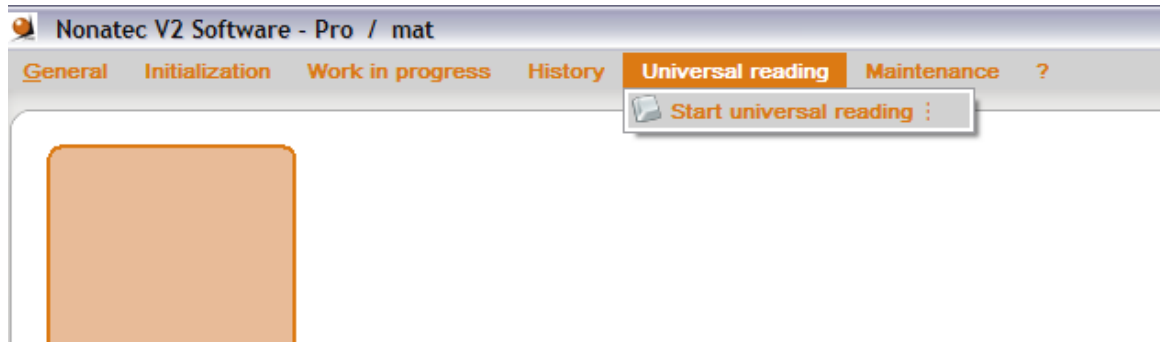


- And the « **Journal** » that is the history of the information the user has saved. The History enables you:
 - ⇒ To file certain data,
 - ⇒ To re-use them later without having to re-identify the tag before.

History										
Two Identification number	Date of the operation	Hour of the operation	Type of the operation	Short Name of the operator	Database Identification Number	Experiment number	Quantity	Next step schedule the	Duration of the Experiment	Color
1 251 707 045 741	31/10/2007	10:58	Writing	MAT		0.00	0.00	17/08/2007	00:00	
1 375 457 936 605	31/10/2007	10:59	Writing	MAT		0.00	0.00		00:00	
1 302 602 408 198	16/10/2007	15:44	Reading	NONAM		0.00	0.00		00:00	
1 376 587 513 004	15/11/2007	16:31	Writing	MAT	9876543126545356	0.00	0.00		00:00	Black
1 353 596 553 069	15/11/2007	16:32	Writing	MAT	8972134356788547	0.00	0.00		00:00	Black
1 313 596 720 611	08/11/2007	16:38	Writing	MAT	9079865432118543	2.00	5.00	06/06/2008	06:00	Black
1 258 634 024 125	08/11/2007	16:38	Writing	MAT	9374213421612812	3.00	3.00	28/08/2008	03:00	Black
1 340 411 003 470	08/11/2007	16:37	Reading	MAT	978535426879819	3.00	9.00	21/02/2008	02:00	Black
1 375 457 936 605	08/11/2007	16:39	Writing	MAT	2425430917987615	4.00	4.00	12/03/2008	05:00	Black
1 263 044 995 538	08/11/2007	16:38	Writing	MAT	0534156781898979	4.00	9.00	06/06/2009	08:00	Grey
1 320 245 329 886	08/11/2007	16:39	Writing	MAT	9083964784323214	5.00	32.00	12/09/2009	02:00	White
1 325 967 028 454	08/11/2007	16:38	Writing	MAT	2344908723856754	6.00	3.00	21/02/2008	03:00	Grey

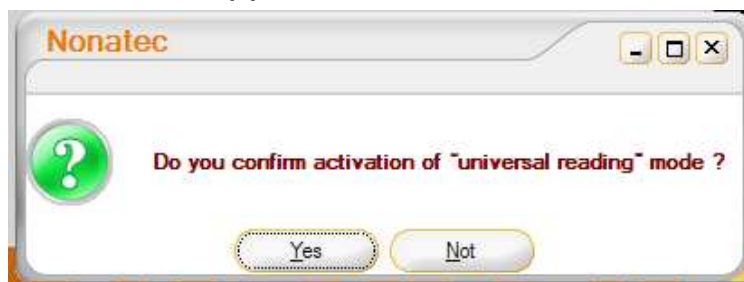
IV. Nonatec PRO Software

e. The "Universal Reading" Menu

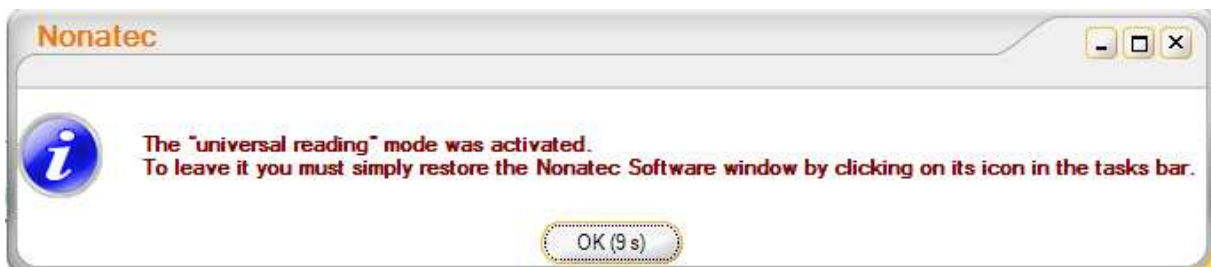


In this menu you will be able to read the identification number of the transponder on any other software (ex: Microsoft Excel...).

The following window will appear:



Once you have selected **"yes"** this window will appear. Before the Universal Reading starts, you will only need to open the software you want to work on.



Once you have finished working, just restore the Nonatec Software to shut down the Universal Reading. The following window will appear:



IV. Nonatec PRO Software

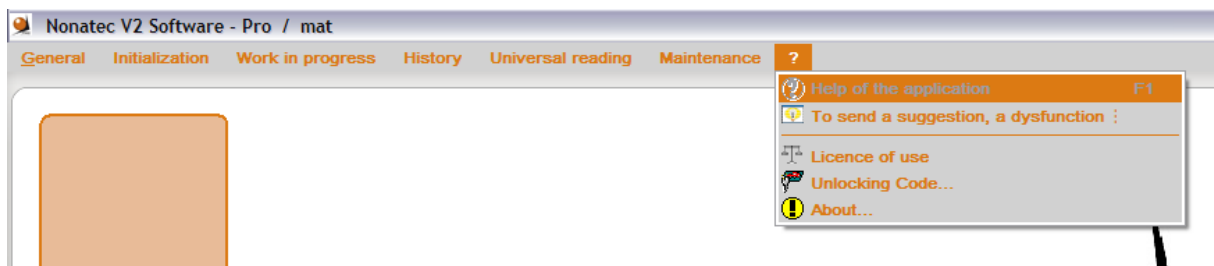
f. The “Maintenance” Menu



In this last menu you will find all the necessary tools in order to store efficiently your data. The different options are respectively used for:

- ⇒ Re-indexing the files of the data base,
- ⇒ Saving the data base,
- ⇒ Restoring a data base previously saved a compressed file,
- ⇒ Connecting and reinitializing the Reader RFID.

g. The “?” Menu



This menu is composed of 4 options:

- ⇒ **“To send a suggestion, a dysfunction”**, which helps you to send feedback or to signal an incident,
- ⇒ **“Licence of use”**
- ⇒ **“Unlock code”** that we have already referred to.
- ⇒ **“About”** which gives you information about the software.

IV. Nonatec PRO Software

B. More Explanations


a. To read a tag

The handling to read a tag is very simple:

1. Go in **'Work in Progress'** and select **'List Box'**
2. Then click on the following Icon:

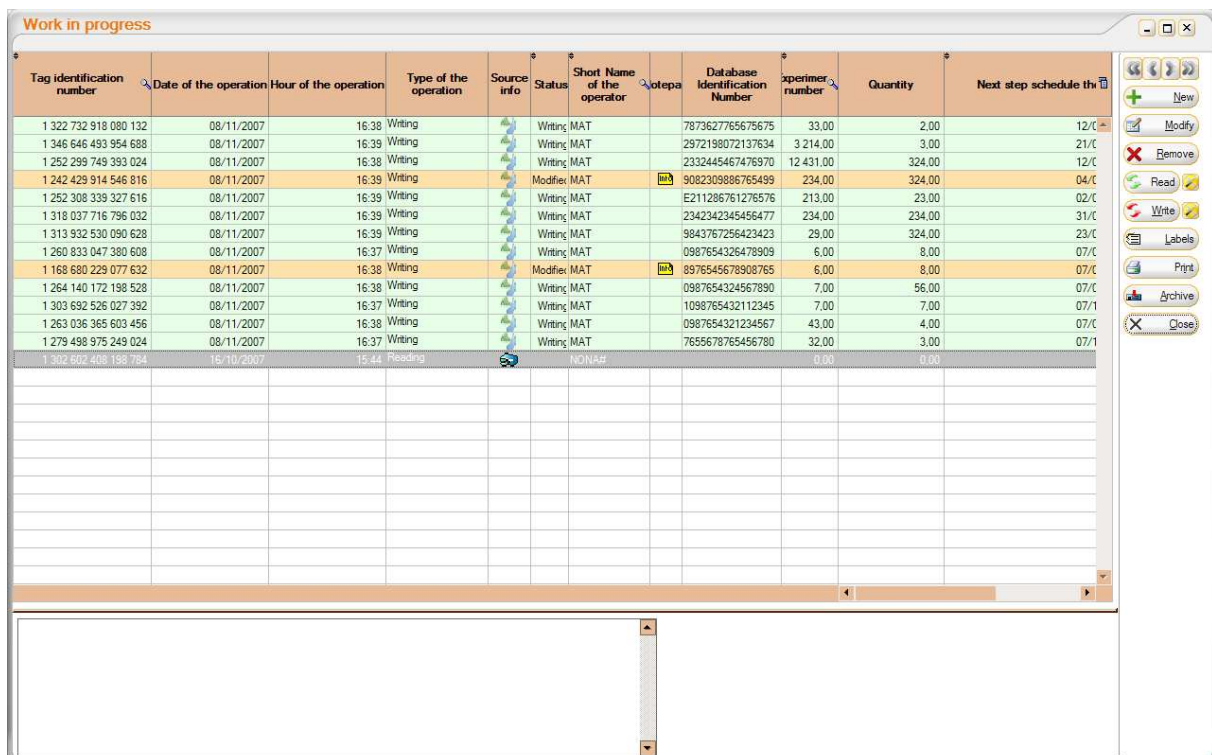


3. You then only need to bring the Reader / Writer device close to the place where the NONATEC Transponder was injected.

NOTA: You can make a continuous reading by selecting at the same time the  Icon.

4. Information contained in the NONATEC Transponder will then appear on the screen.

The NONATEC software keeps up automatically the data to date!



Tag identification number	Date of the operation	Hour of the operation	Type of the operation	Source Info	Status	Short Name of the operator	Database Identification Number	Quantity	Next step schedule th
1 322 732 918 080 132	08/11/2007	16:38	Writing			Writing MAT	7873627765675675	33.00	12/C
1 346 646 493 954 688	08/11/2007	16:39	Writing			Writing MAT	2972198072137634	3 214.00	21/C
1 252 299 749 393 024	08/11/2007	16:38	Writing			Writing MAT	2332445467476970	12 431.00	12/C
1 242 429 914 546 816	08/11/2007	16:39	Writing			Modifier MAT	9082309886765499	234.00	04/C
1 252 308 339 327 616	08/11/2007	16:39	Writing			Writing MAT	E211286761276576	213.00	02/C
1 318 037 716 796 032	08/11/2007	16:39	Writing			Writing MAT	2342342345456477	234.00	31/C
1 313 932 530 090 628	08/11/2007	16:39	Writing			Writing MAT	9843767256423423	29.00	23/C
1 260 833 047 380 608	08/11/2007	16:37	Writing			Writing MAT	0987654326478909	6.00	07/C
1 168 680 229 077 632	08/11/2007	16:38	Writing			Modifier MAT	8976545678908765	6.00	07/C
1 264 140 172 198 528	08/11/2007	16:38	Writing			Writing MAT	0987654324567890	7.00	07/C
1 303 692 526 027 392	08/11/2007	16:37	Writing			Writing MAT	1098765432112345	7.00	07/C
1 263 036 365 603 456	08/11/2007	16:38	Writing			Writing MAT	0987654321234567	43.00	07/C
1 279 498 975 249 024	08/11/2007	16:37	Writing			Writing MAT	7655678765456780	32.00	07/C
1 302 602 408 198 764	16/10/2007	15:44	Reading			NONA#		0.00	0.00


IV. Nonatec PRO Software

b. To Modify a tag

1. Double click on the line corresponding to the Nonatec Transponder you wish to modify.
2. Make the changes you need, then click on **"Apply"**
3. In the list box, you will notice that the line you have modified is now highlighted in orange and the status is on "modified"
4. You then need to write the information on the Nonatec Transponder. (Go to Chapter "Write a tag")

c. To write a tag

The handling to write a tag is very simple: 

1. In **"Work in Progress"** click on the following icon :
NOTA: You can make a continuous writing by selecting at the same time the  Icon.
2. You then only need to bring the Reader / Writer device close to the place where the NONATEC Transponder was injected. The system will automatically recognize the Identification number of the tag and make the modifications corresponding.
3. Once done, the line will Highlight in "green" and the status will go to "writing".

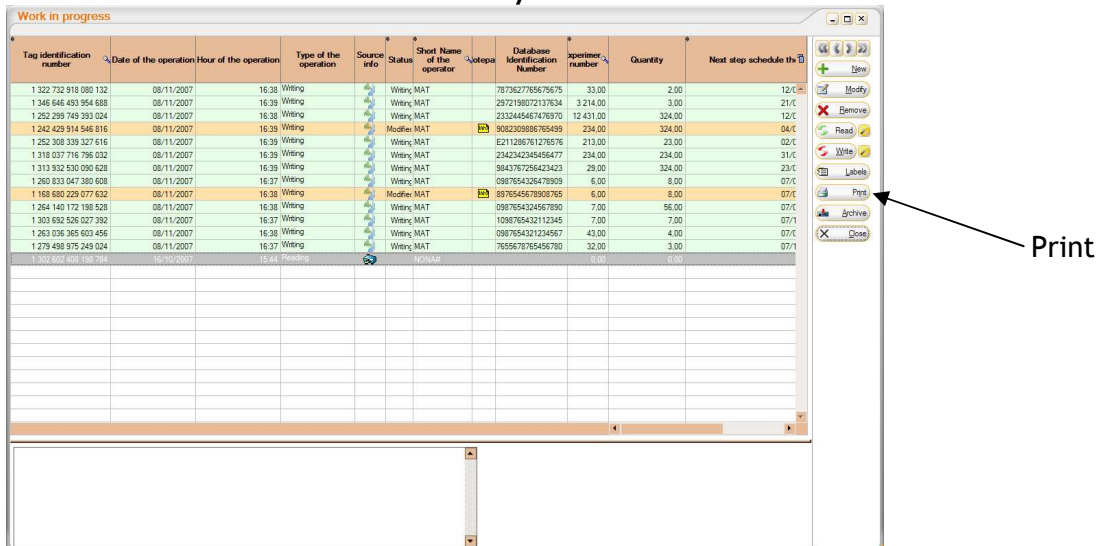
Work in progress

Tag Identification number	Date of the operation	Hour of the operation	Type of the operation	Source info	Status	Short Name of the operator	Steps	Database Identification Number	Experimenter number	Quantity	Next step schedule by
1 322 732 818 080 132	08/11/2007	16:38	Writing			Witeng.MAT		7873627765676765	33.00	2.00	12/11/07
1 346 646 493 954 688	08/11/2007	16:39	Writing			Witeng.MAT		2972190572137634	3 214.00	3.00	21/11/07
1 252 299 749 393 024	08/11/2007	16:39	Writing			Witeng.MAT		2332445647476370	12 431.00	324.00	12/12/07
1 242 429 914 546 816	08/11/2007	16:39	Writing			Modifex.MAT	1A	908230986765499	234.00	324.00	04/12/07
1 252 309 339 327 616	08/11/2007	16:39	Writing			Witeng.MAT		8211286761276576	213.00	23.00	02/12/07
1 318 037 716 796 032	08/11/2007	16:39	Writing			Witeng.MAT		2342424345495477	234.00	234.00	31/11/07
1 313 932 530 090 628	08/11/2007	16:39	Writing			Witeng.MAT		9843767256423423	29.00	324.00	23/11/07
1 260 833 047 380 608	08/11/2007	16:37	Writing			Witeng.MAT		0987654326478909	6.00	8.00	07/11/07
1 168 680 229 077 632	08/11/2007	16:38	Writing			Modifex.MAT	1A	8576545678901765	6.00	8.00	07/11/07
1 264 140 172 198 528	08/11/2007	16:38	Writing			Witeng.MAT		0987654324567890	7.00	56.00	07/11/07
1 303 692 526 027 392	08/11/2007	16:37	Writing			Witeng.MAT		1098765432112345	7.00	7.00	07/11/07
1 263 036 365 603 456	08/11/2007	16:36	Writing			Witeng.MAT		0987654321234567	4.00	4.00	07/11/07
1 279 498 976 924 024	08/11/2007	16:37	Writing			Witeng.MAT		7655678765456780	32.00	3.00	07/11/07
1 302 692 408 198 784	16/10/2007	15:44	Pending			NCH/Mat			0.00	0.00	
										</	

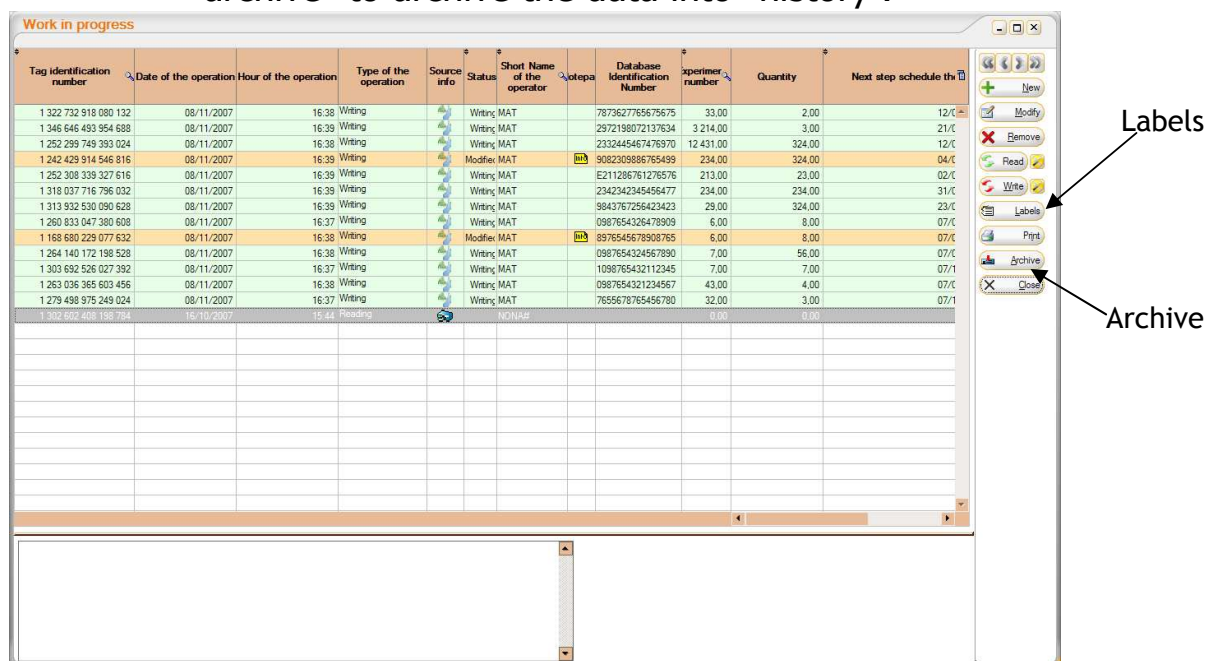
IV. Nonatec PRO Software

d. To print a document

- Select the line you want to print out,
- Click on the "Print" key.



- You can also click on "labels" to print some labels or on "archive" to archive the data into "history".



e. The database

- Is able to identify an unlimited number of transponders, and to safeguard a substantial quantity of data,
- Has a practical layout, which will help you in your analysis as it allows the combination of an overview of your experimentation with specific data, observations and annotations concerning each tag.

IV. FAQ and SUPPORT

1. FAQ

[illegible]

IV. FAQ and SUPPORT

2. CONTACT



1, rue de L'industrie
L-4801 RODANGE
LUXEMBOURG

Tél. (352) 26 50 32 93 - Fax. (352) 26 50 32 94
Web: www.nonatec.net
Mail: Sales@nonatec.net