



USER MANUAL

Revision 1.0

RS430

Portable Stick Reader with NFC feature



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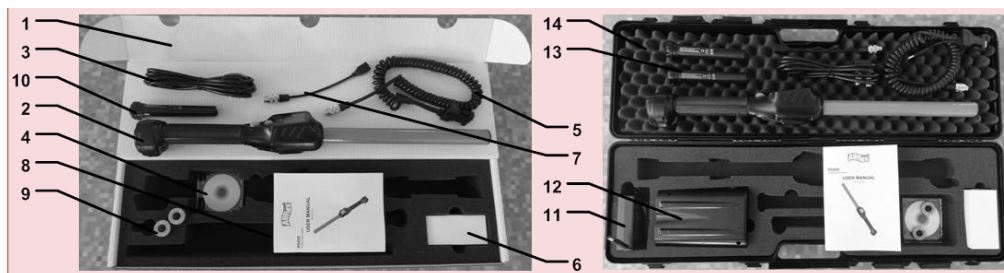
Description

The RS430NFC reader is a rugged portable hand-held scanner and telemeter for Electronic Identification (EID) ear tags specifically designed for livestock applications with SCR cSense™ or eSense™ Flex Tags (see chapter “What is an cSense™ or eSense™ Flex Tag?”). The reader fully complies with ISO standards ISO11784 / ISO11785 for FDX-B and HDX technologies and ISO 15693 for SCR cSense™ or eSense™ Flex Tags.

In addition to its tag reading capabilities, the reader can store the ear tag numbers in different working sessions, each ear tag being associated with a time/date stamp and a SCR number, in its internal memory and transmit them to a personal computer via a USB interface, an RS-232 interface or a Bluetooth® interface.

The device has a large display which allows you to view the “Main Menu” and configure the reader to your specifications.

Packaging list



Commenté [VL1]: To update

Item	features	Description
1	Cardboard	Used to transport the reader
2	Reader	-
3	IEC cable	Supply cable to power the external adapter
4	No longer available	
5	Data-Power Cable	Conveys external power to reader and serial data to and from reader.
6	External Power Adapter	Powers the reader and charges the battery with Input: 100-240V 50/60Hz, 1.5A. Output: 12Vdc, 1.5A (reference: FJ-SW20181201500 or GST18A12-P1J or SF24E-1201500I)
7	USB flash drive adapter	Allows the user to connect an USB stick to upload or to download data to or from reader.
8	User Manual	-
9	Ear Tags ¹	2 ear tags to demonstrate and test FDX and HDX reading capabilities.
10 & 13	Rechargeable Li-Ion battery	Supplies the reader.
11 & 12	No longer available	
14	Plastic case (optional)	Use to transport the reader in a robust case.

¹ Ear tags not provided in Australia and New Zealand

Figure 1 - Reader features and user interface.

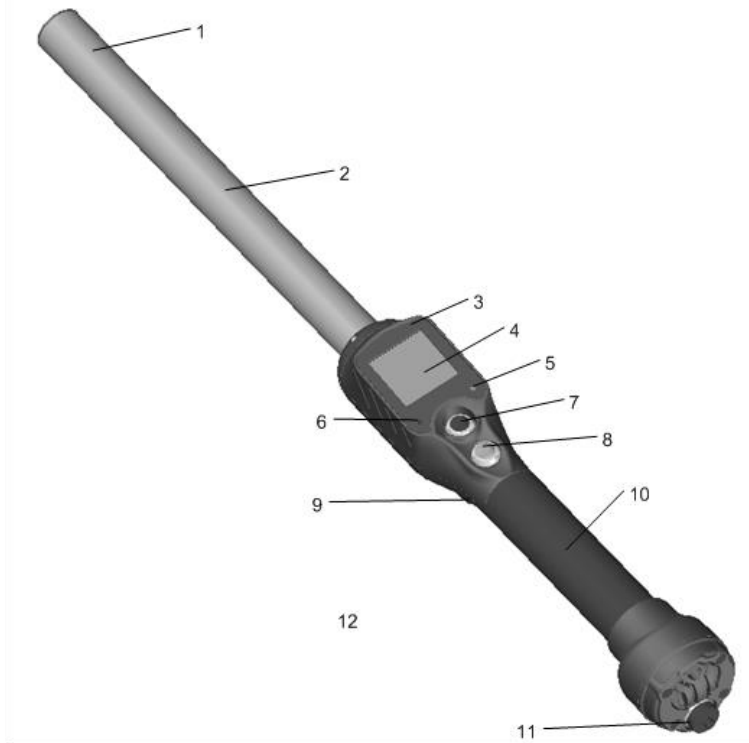


Table 1 – Reader features and description of use

Item	Feature	Description of use
1	Antenna	Emits activation signal and receives RFID tag signal (LF and HF).
2	Fiberglass Tube Enclosure	Rugged and watertight enclosure.
3	Audible beeper	Beeps once on first tag reading and 2 short beeps for repeat.
4	Large graphical readout with backlight	Displays information about current reader status.
5	Green indicator	Illuminates whenever a tag data has been stored.
6	Red indicator	Illuminates whenever antenna is emitting activation signal.
7	black MENU button	Navigates in the reader menu to manage or to configure it.
8	green READ button	Applies power and causes activation signal to be emitted for reading tags.
9	Vibrator	Vibrates once on first tag reading and short vibrates for repeat.
10	Handle grip	Rubber anti-slip griping surface
11	Cable connector	Electrical interface for attaching Data/Power cable or USB stick adapter.
12	Bluetooth® (internal)	Wireless interface to communicate data to and from reader (not pictured)

Operation

Getting Started

It is necessary to first fully charge the Battery Pack as described below and to have a few electronic identification ear tags or implants available for testing. **It is very important to carry out the three steps described in this section before using the reader** (see “Battery handling instructions

Battery handling instructions” section for more information)

Step 1: Installing the battery pack in the device.



1

Insert the battery provided with the product, in the reader. The pack is keyed for proper installation.



2

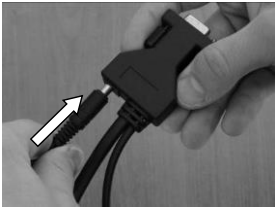
The stationary key should be up towards the display. The battery pack will “snap” into place when it is properly inserted. **DO NOT FORCE** the battery into the reader. If the battery does not insert smoothly, verify it is properly orientated.

Step 2: Charging the battery pack.



1

Unscrew the protective cap which guards against foreign material contamination.
Insert the data-power cable provided with the product by engaging the connector and rotating the lock-ring.



2

Plug the power cord into the cable socket located at the end of the data-power cable (see **Note 1**)



3 Plug the adapter into a power outlet. The battery icon indicates the battery pack is in charge with the bars flashing inside the icon. It also gives the battery charge level.



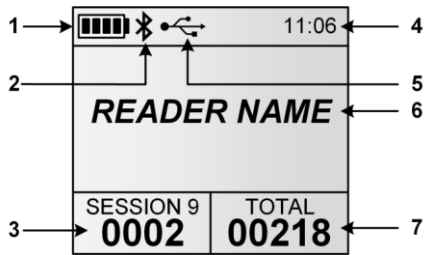
4 The battery icon will remain in a fix state when charging has finished. Charging takes approximately **3 hours**.
Remove the power cord.
Unplug the adapter from the power outlet, and remove the data-power cable inserted in the reader.



Note 1 – Ensure you are using the correct adapter (item 6) provided with the reader.

Power on / off instructions

Press the green button on the reader handle to power on the reader. The main screen will appear on the display:



Item	Feature	Description of use
1	Battery level	The battery level shows the fully charged level as well as the charge level during the charge mode. (see "Power Management" section)
2	Bluetooth connection	Indicates Bluetooth® connection status (see "Bluetooth® management" and "Using Bluetooth® interface" sections for more details).
3	Current number of ID codes	Number of read and saved ID codes in the current session.
4	Clock	Clock time in 24-hour mode.
5	USB connection	Indicates when the reader is connected to a computer via USB port. (See "Using USB interface" section for more details)
6	Reader name	Displays the reader name. It appears only upon power on and until a tag is read.
7	Number of ID codes	Total number of read and saved ID codes in all recorded sessions.



Note 2 - Once activated, the reader will stay on for 5 minutes by default, if it is powered only by its battery pack.



Note 3 - Depress BOTH buttons for 3 seconds to power off the reader.

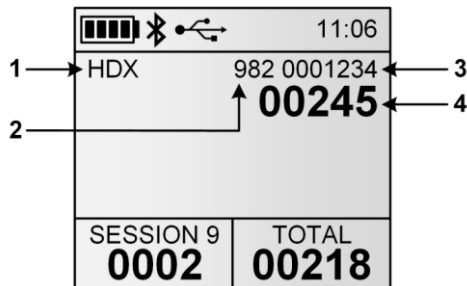
Reading an EID Ear Tag

Scanning animals

Place the device near the animal identification tag to be read, then press the green button to activate the reading mode. The screen backlight switches on and the red light will be flashing.

During the reading mode, move the reader along the animal to scan the ear tag ID. The reading mode remains activated during a programmed duration. If the green button is held down, the reading mode remains activated. If the device is programmed in continuous reading mode, the reading mode remains indefinitely activated until you press the green button a second time.

The following picture shows the result of a successful reading session:



Item	Feature	Description of use
1	Tag type	ISO standard 11784/5 has approved 2 technologies for animal identification: FDX-B and HDX. When the reader displays the word "IND" as tag type, it means that its tag is not coded for animals.
2	Country code / Manufacturer code	The country code is according the ISO 3166 and ISO 11784/5 (numeric format). Manufacturer code is according to ICAR assignment.
3	First digits of ID code	First digits of the identification code according the ISO 11784/5.
4	Last digits of ID code	Last digits of the identification code according the ISO 11784/5. The user can select the number of last bold digits (between 0 and 12 digits).

When a new ear tag is successfully read the green light flashes, the reader stores the ID code in its internal memory² and the current date and time.

The number of read ID codes in the current session is increased.

The buzzer and the vibrator will sound and/or vibrate with every scan.

² Depending on tag storage mode option

Note 4



- Two short beeps and a short vibration mean that the reader has previously read the tag in the current session.
- A beep/vibration of medium duration means that the reader has read a new tag which has NOT been previously read during the current session
- A long beep/vibration means that there is an alert regarding the tag which has been read (see “Comparison sessions” section for more information).



Note 5 –The date and time stamp, and the sound/vibration features are options that can be turned on or off according to your specific applications.



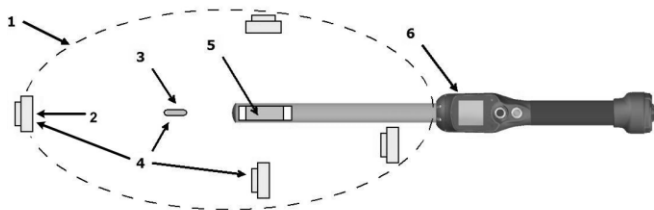
Note 6 - The reader can scan when the power cable is attached³.

Each time a tag is scanned, the identification code is transmitted automatically via the USB cable, the RS-232 cable, or Bluetooth®.

Read range performances

Figure 2 illustrates the reading zone of the reader, within which tags can be successfully detected and read. Optimum read distance occurs depending on the orientation of the tag. Tags and implant read best when positioned as shown below.

Figure 2 - Optimum Read Distance Tag Orientation



Item	Legend	Comments
1	Reading zone	Area in which the ear tags and the implants can be read.
2	RFID Ear tag	-
3	RFID Implant	-
4	Best orientation	Best orientation of the ear tags regarding the reader antenna
5	Antenna	-
6	Reader	-

Typical read distances will vary when reading different types of tags. In the optimum tag orientation at the end of the reader (as shown in Figure 2), the reader will read up to 42cm depending tag type and orientation.

³ Except in Canada

Tips for efficient reading

Tag reader efficiency is often linked with reading distance. The device's read distance performance may be affected by the following factors:

- **Tag orientation:** See Figure 2.
- **Tag quality:** It is normal to find that many common tags from different manufacturers have different read range performance levels.
- **Animal movement:** If the animal moves too quickly, the tag may not be located in the read zone long enough for the ID code information to be obtained.
- **Tag type:** HDX and FDX-B tags generally have similar reading distances, but environmental factors such as RF interferences may affect overall tag performances.
- **Nearby metal objects:** Metal objects located near a tag or reader may attenuate and distort the magnetic fields generated in the RFID systems therefore, reducing the reading distance. An example, an ear tag against a squeeze chute significantly reduces the read distance.
- **Electrical noise interference:** The operating principle of RFID tags and readers is based on electromagnetic signals. Other electromagnetic phenomena, such as radiated electrical noise from other RFID tag readers, or computer screens may interfere with RFID signal transmission and reception, therefore, reducing the read distance.
- **Tag/reader interference:** Several tags in the reception range of the reader, or other readers that emit excitation energy close by may adversely affect reader performance or even prevent the reader from operating.
- **Discharged battery pack:** As the battery pack discharges, the power available to activate the field becomes weaker, which in turn reduces the read range field.

Advanced reading features

Comparison sessions

The reader can be configured to work with a comparison session. Working with comparison sessions allows to:


- Display / Store additional data for a given ear tag (Visual ID, medical information...).
- The additional data is stored in the current working session and can be retrieved when downloading the session.
- Generate alerts on animal found / not found (see Menu 10)


Display / Store additional data:

11:06	
HDX	982 0001234
	00245
VID:	XAG02345
BRE:	Beefalo
>My List<	TOTAL
0002	00218

Alert on animal found:

11:06	
HDX	982 0001234
	00245
ANIMAL FOUND!	
SESSION 9	TOTAL
0002	00218

Note 7 –  icon informs that a comparison session is currently active. The comparison session is displayed between “> <” symbols (ex: “>My List<”).


Note 8 –  icon informs that alerts are currently enabled.

Note 9 – Comparison sessions can be uploaded into the reader using EID Tag Manager PC software or any third-party software implementing this feature. You can change the comparison session using the reader menu (see Menu 9)

Note 10 – When an alert occurs, the reader will generate a long beep and vibration.

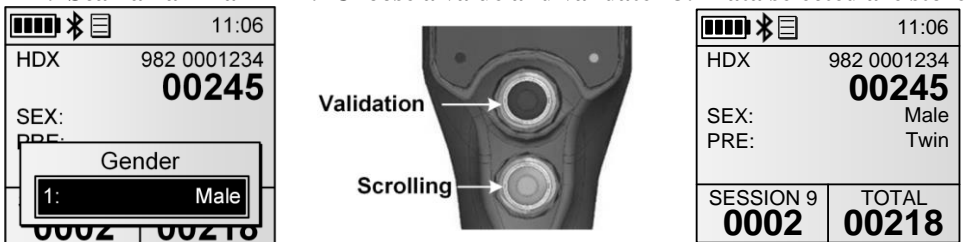
Data entry

Data entry feature can be enabled to associate one or several information to an animal ID. When an animal is scanned and the data entry feature is enabled, a window pops-up to select one of the data in the selected data entry list (see below). Up to 3 lists can be used at the same time for data entry. See Menu 11 to select the desired list(s) or enable/disable data entry feature.

Note 11 –  icon informs that data entry feature is currently enabled

Note 12 – Data entry lists can be uploaded into the reader using EID Tag Manager PC software or any third-party software implementing this feature.

1. Scan an animal **2. Choose a value and validate** **3. Data selected are stored**



The diagram illustrates the data entry process in three stages:

- 1. Scan an animal:** A handheld reader displays a screen with the following information: HDX 982 0001234, 00245, SEX: Male, PRE: Twin. A pop-up window titled "Gender" shows a list with "1: Male".
- 2. Choose a value and validate:** A close-up of the reader's lens area. An arrow labeled "Validation" points to the top lens, and an arrow labeled "Scrolling" points to the bottom lens.
- 3. Data selected are stored:** The reader screen shows the same information as in step 1, but with a summary table at the bottom: SESSION 9 TOTAL, 0002 00218.

Note 13 – Up to four data fields can be used for a given tag. If a comparison session is used and contains three data fields, only one data entry list can be used.

Note 14 – A list named “Default” containing numbers (1, 2...) is always available.

Note 15 – When a tag is read twice or more, the reader will preselect the previously validated data. If the data entry is different, a duplicate tag is stored in the session with the new data.

Reading a cSense™ or eSense™ Flex Tags

What is an cSense™ or eSense™ Flex Tag?



The SCR cSense™ or eSense™ Flex Tag are RF tags worn by cows. They combine rumination, heat detection and cow identification functionality to give dairy farmers a revolutionary tool to monitor their cows in real-time, 24 hours a day.

Each Flex Tag collects information and transmits it to the SCR system a few times per hour via RF technology, so the information in the system is up-to-date at all times, no matter where the cow is located.

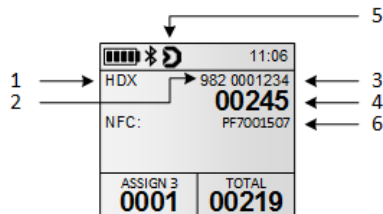
To combine each tag with the EID tag carried on each animal, an NFC tag is included inside the Flex Tags and can be read by the device.

(refer to SCR's website for complementary information (www.scrdairy.com))

Scanning animals and assign Flex Tag

Before to read, select in the menu (see Menu 17 - Menu "SCR by Allflex"), the assignment operation, then place the device close to the animal identification ear tag to be read, then press the green button in order to activate the reading mode. The screen backlight switches on and the red light will be flashing. Once the EID ear tag is read, the orange light will be flashing and message will be displaying, place the device parallel to the Flex Tag to assign it to the EID number (see Figure 3 to list all use cases).

The following picture shows the result of a successful reading session:



Item	Feature	Description of use
1	Tag type	ISO standard 11784/5 has approved 2 technologies for animal identification: FDX-B and HDX. When the reader displays the word "IND" as tag type, it means that its tag is not coded for animals.
2	Country code / Manufacturer code	The country code is according the ISO 3166 and ISO 11784/5 (numeric format). Manufacturer code is according to ICAR assignment.
3	First digits of ID code	First digits of the identification code according the ISO 11784/5.
4	Last digits of ID code	Last digits of the identification code according the ISO 11784/5. The user can select the number of last bold digits (between 0 and 12 digits).
5	SCR's icon	Indicate the SCR feature is enabled and can operate.
6	SCR's number	Number of the HR LD tag

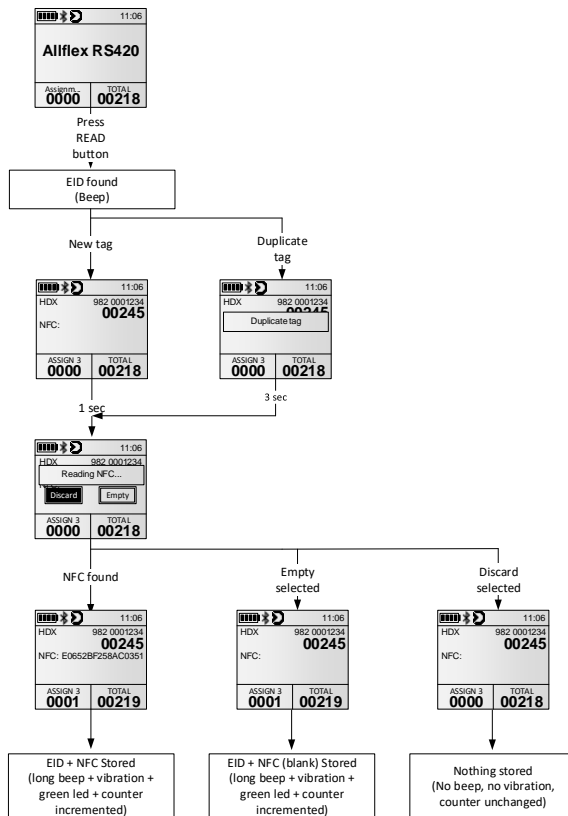
When a new EID ear tag is successfully read the green light flashes and when a SCR's number is successfully read the blue light flashes, the reader stores the ID code and the SCR's number in its internal memory⁴ and the current date and time.

The number of assignments in the current session is increased.

The buzzer and the vibrator will sound and/or vibrate with every scan.

Note 16 – Refer to chapter “Reading an EID Ear Tag” to know how read efficiently EID ear tag.

Figure 3 - Tag assignment and unassignment



Note 17 - A beep/vibration of medium-duration means that the reader has read a tag.

Note 18 - The reader can scan when the power cable is attached⁵.

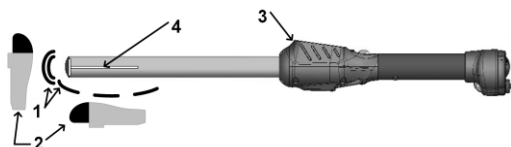
⁴ Depending on tag storage mode option

⁵ Except in Canada

Read range performances

Figure 4 illustrates the reading zone of the reader, within which Flex Tags can be successfully detected and read. Optimum read distance occurs depending on the orientation of the tag. Flex Tags read best when positioned as shown below.

Figure 4 - Optimum Read Distance - Tag Orientation



Item	Legend	Comments
1	Reading zone	Area in which the ear tags and the implants can be read (above the tube)
2	Flex Tag	Best orientation of the Flex Tag regarding the reader antenna
3	Reader	-
4	Antenna	-

Tips for efficient Flex Tag reading

Tag reader efficiency is often linked with reading distance. The device's read distance performance may be affected by the following factors:

- **Tag orientation:** See Figure 4.
- **Animal movement:** If the animal moves too quickly, the tag may not be located in the read zone long enough for the SCR code information to be obtained.
- **Tag type:** cSense™ or eSense™ Flex Tag have different reading distances, and environmental factors such as RF interferences may affect overall tag performances.
- **Nearby metal objects:** Metal objects located near a tag or reader may attenuate and distort the magnetic fields generated in the RFID systems therefore, reducing the reading distance. An example, an ear tag against a squeeze chute significantly reduces the read distance.
- **Electrical noise interference:** The operating principle of RFID tags and readers is based on electromagnetic signals. Other electromagnetic phenomena, such as radiated electrical noise from other RFID tag readers, or computer screens may interfere with RFID signal transmission and reception, therefore, reducing the read distance.
- **Tag/reader interference:** Several tags in the reception range of the reader, or other readers that emit excitation energy close by may adversely affect reader performance or even prevent the reader from operating.
- **Discharged battery pack:** As the battery pack discharges, the power available to activate the field becomes weaker, which in turn reduces the read range field.

Managing the menu

Using the menu

With the reader powered on, press the black button for over 3 seconds.

Menu 1 – Menu listed after pressing of the black button for over 3 seconds.

	Item	Sub-Menu	Definition
Menu	1	Back	Return to the main screen
<< Back	2	Session	Enter into the session management sub-menu (see Menu 2)
Session >	3	SCR by Allflex	Enter into the SCR's tag management sub-menu (see Menu 17).
SCR by Allflex >	4	Bluetooth	Enter into the Bluetooth management sub-menu (see Menu 6)
Bluetooth settings >	5	Read settings	Enter into the reading management sub-menu (see Menu 8)
Read settings >	6	General settings	Enter into the device settings sub-menu (see Menu 14).
General settings >	7	Reader information	Gives information about the reader (see Menu 19).
Reader information >			



Note 19 – To enter into a sub-menu, move the horizontal lines by pressing the green button and press the black button to select it.



Note 20 - The reader automatically closes the menu if no action occurs for 8 seconds.





Note 21 – The symbol ► is in front of the currently selected option.

Session management


Menu 2 - Menu “session”

	Item	Sub-Menu	Definition
Session	1	Back	Return to the previous screen
Back	2	New working session	Create a new working session after validation by the user. This new session becomes the current working session and the previous one is closed. (See Note 24 about custom session names)
New working session >	3	Open working session	Select and open one of the stored sessions.
Open working session >	4	Export session	Enter into the export sub-menu. (see Menu 3)
Export session >	5	Import from flash drive	Import sessions from flash drive (memory stick) and store them into the reader flash memory. (refer to “Connect the reader to an USB flash drive” section)
Import from flash drive >	6	Delete session	Enter into the delete sub-menu
Export session >			
Import from flash drive >			
Delete session >			

 **Note 22** – Each ID code is stored internally in the reader’s memory until the user erases the sessions after downloading them to a PC or other storage device, such as an USB stick.

 **Note 23** – If enabled, the reader provides a time and date stamp for each identification number stored. The user can enable/disable the date and time transmission using EID Tag Manager software.

Note 24 – By default, the session will be named “SESSION 1”, the number being incremented automatically.


 If custom session names have been created using EID Tag Manager or a 3rd party software, then the menu will display the session names available and the user can choose one of the names available.


Menu 3 - Menu “export session”

Item	Sub-Menu	Definition
1	Back	Return to the previous screen
2	Current session	Open the Menu 4 to select the channel to export the current session.
3	Select session	List the stored sessions and once a session is selected, open the Menu 4 to select the channel to export the selected session.
4	All sessions	Open the Menu 4 to select the channel to export all sessions.

Menu 4 - List of channels to export the session(s):

Item	Sub-Menu	Definition
1	Back	Return to the previous screen
2	Bluetooth	Send session(s) via the Bluetooth link
3	USB flash drive	Store the session(s) on flash drive (memory stick) (see Note 26)

 **Note 25** – Connect a USB flash drive (memory stick) or establish a Bluetooth® connection before selecting the session importation or exportation.

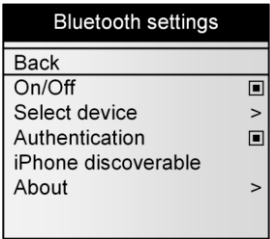
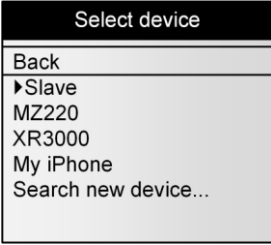
 **Note 26** – If no USB flash drive (memory stick) is detected, message “No drive detected” will pop up. Check the drive is well-connected and then retry or cancel.

Menu 5 – Menu “delete session”

Item	Sub-Menu	Definition
1	Back	Return to the previous screen
2	Select session	List the stored sessions, and once a session is selected, it is deleted after confirmation.
3	All sessions	Erase all stored sessions after confirmation.

Bluetooth® management


Menu 6 - Menu “Bluetooth®”

	Item	Sub-Menu	Definition
 <p>Bluetooth settings</p> <ul style="list-style-type: none"> Back On/Off <input type="checkbox"/> Select device > Authentication <input type="checkbox"/> iPhone discoverable About > 	1	Back	Return to the previous screen
	2	On/Off	Enable / Disable the Bluetooth® module.
	3	Select device	Configure the reader in SLAVE mode or scan and list all Bluetooth® devices in the reader vicinity to configure the reader in MASTER mode.
	 <p>Select device</p> <ul style="list-style-type: none"> Back ▶Slave MZ220 XR3000 My iPhone Search new device... 		
	4	Authentication	Enable / disable the security feature of the Bluetooth®
	5	iPhone discoverable	Make the reader discoverable by iPhone®, iPad®.
	6	About	Provide information about the Bluetooth® features (see Menu 7).



Note 27 – When the reader is discoverable by iPhone or iPad, a message “pairing finished?” is displayed. Press “Yes” once the iPhone or iPad is paired to the reader.

Menu 7 – Information about Bluetooth®

	Item	Feature	Description of use
 <p>About Bluetooth</p> <p>Name: RS420_00086 Addr: 00:04:3E:AA:C2:C6 Pairing: Slave Security: OFF PIN: 1234 Version: 121016A IDPS</p>	1	Name	Name of the reader.
	2	Addr	Address of the RS430NFC Bluetooth® module.
	3	Pairing	Bluetooth® address of the remote device when the reader is in MASTER mode or term “SLAVE” when the reader is in SLAVE mode.
	4	Security	On/Off – indicates authentication status
	5	PIN	Pin code to be entered if asked
	6	Version	Version of the Bluetooth® firmware.

Read settings

Menu 8 - Menu “Read settings”

	Item	Sub-Menu	Definition
Read settings	1	Back	Return to the previous screen
Back	2	Comparison and Alerts	Manage comparison and alerts settings (see Menu 9).
Comparison and Alerts >	3	Data entry	Manage data entry feature (See Note 11 about data entry icon)
Data entry >	4	Read time	Adjust the scanning time (3s, 5s, 10s or continuous scanning)
Read time >	5	Tag storage mode	Change the storage mode (no storage, on read and on read without duplicated numbers in the memory)
Tag storage mode >	6	Counter mode	Manage the counters displayed on main screen (see Menu 12)
Counter mode >	7	RFID Power Mode	Manage the power consumption of the device (see Menu 13)
RFID Power mode >	8	Temperature	Enable temperature detection with Temperature Detection implants
Temperature <input type="checkbox"/>			

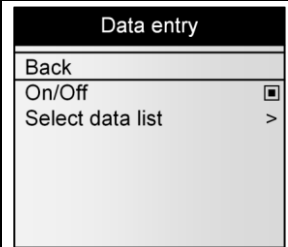
Menu 9 - Menu “Comparison and Alerts”

	Item	Sub-Menu	Definition
Comparison and Alerts	1	Back	Return to the previous screen
Back	2	Select comparison	List all sessions saved in the reader memory and select the comparison session used to compare the read tag numbers. (see Note 7 about Compare session icon)
Select comparison >	3	Disable comparison	Disable the comparison.
Disable comparison Alerts >	4	Alerts	Enter into the “alerts” menu (see Menu 10 and Note 8 about alert icon).

Menu 10 - Menu “Alerts”

	Item	Sub-Menu	Definition
Alerts	1	Back	Return to the previous screen
Back	2	Disabled	Disable the alerts.
Disabled	3	On animal found	Produce an alert (long beep/vibration) signal when the read ID code is found in the comparison session.
▶On animal found	4	On animal not found	Produce an alert signal when the read ID code is NOT found in the comparison session.
On animal not found	5	From compare session	Produce an alert if the read ID is tagged with an alert within the compare session. Tag data header in compare session must be named “ALT”. If the “ALT” field for a given ear tag number contains a string, an alert will be generated; otherwise, no alert will be generated.
From compare session			

Menu 11 - Menu “Data entry”

	Item	Sub-Menu	Definition
	1	Back	Return to the previous screen
	2	On/Off	Enable / Disable data entry feature
	3	Select data list	Select one or several data entry list(s) (up to 3 list selectable) to be used to associate data entry with the tag read

Menu 12 - Menu “Counter mode”

Item	Sub-Menu	Definition
1	Back	Return to the previous screen
2	Session Total	1 counter for all IDs stored in the current session and 1 counter for all IDs saved in memory (9999 max per session)
3	Session Unique tags	1 counter for all IDs stored in the current session and 1 counter for all unique IDs stored in this session (max. 1000). The tag storage mode is automatically changed to “ON READ”.
4	Session MOB	1 counter for all IDs stored in the current session and 1 sub-counter to count mobs in a session. Reset mob counter action can be set as quick action (see quick actions menu)

Menu 13 - Menu “RFID power mode”

Item	Sub-Menu	Definition
1	Back	Return to the previous screen
2	Save power	Puts the device in low power consumption with shorter reading distances.
3	Balance mode	Reduce the power consumption with lower reading distance but better than in save power mode.
4	Full power	Puts the device in high power consumption



Note 28 – When the reader is in Save power mode, the reading distances are reduced.

General settings

Menu 14 - Menu “general settings”

	Item	Sub-Menu	Definition
	1	Back	Return to the previous screen
	2	Profiles	Recall a profile saved in the reader. By default, the factory settings can be reloaded.
	3	Quick action	Attribute a second feature to the black button (see Menu 15).
	4	Vibrator	Enable / Disable vibrator
	5	Buzzer	Enable / Disable audible beeper
	6	Protocol	Select the protocol used by the communication interfaces (see Menu 16).
	7	Language	Select the language (English, French, Spanish or Portuguese).
	8	Virtual keyboard	Replace the default protocol of USB and Bluetooth interfaces by HID protocol



Note 29 – A profile is a complete set of settings (read mode, tag storage, Bluetooth parameters...) corresponding to a use case. It can be created with EID Tag Manager program and then recalled from the reader menu. The user can save up to 4 profiles.

Menu 15 - Menu “quick action”

	Item	Sub-Menu	Definition
	1	Back	Return to the previous screen
	2	Disabled	No feature attributed to the black button
	3	Enter menu	Fast access to the menu.
	4	New session	Fast creation of a new session.
	5	Re-send last tag	Last read tag is re-sent on all communication interfaces (Serial, Bluetooth®, USB).
	6	MOB reset	Reset the MOB counter when Session MOB counter type is selected (See Menu 12)



Note 30 – A quick action is a second feature attributed to the black button. The reader performs the selected action after a short keystroke of the black button.



Note 31 – If the user holds the black button for over 3 seconds, the device displays the menu and the quick action is not performed.

Menu 16 – Menu “protocol”

	Item	Sub-Menu	Definition
	1	Back	Return to the previous screen
	2	Standard protocol	Select the standard protocol defined for this reader

Protocol	3	Allflex RS320 RS340	Select the protocol used by ALLFLEX'S readers RS320 and / RS340
Back			
▶Standard protocol Allflex RS320/RS340			



Note 32 – All commands of ALLFLEX'S reader are implemented but some features are not implemented.

SCR by Allflex

Menu 17 - Menu “SCR by Allflex”

	Item	Sub-Menu	Definition
SCR by Allflex	1	Back	Return to the previous screen
Back	2	New	New tag assignment or tag unassignment in a session.
New...	3	Open	Open and select one of the stored sessions
Open...	4	Delete	Delete one of the stored session
Delete...	5	Session Information	Give details about the stored session (name, tag count, creation date and type of session)
Session information	6	NFC Test	Feature to test the NFC functionality only.
NFC Test			

Menu 18 - Menu “New...”

	Item	Sub-Menu	Definition
New...	1	Back	Return to the previous screen
<< Back	2	Tag assignment	Allow to assign an EID number with an SCR's number (see chapter “Scanning animals and assign Flex Tag”).
Tag assignment	3	Tag unassignment	Remove the assignment of an EID number of SCR's number with tag reading (see chapter “Scanning animals and assign Flex Tag”).
Tag unassignment			



Note 33 – NFC feature is automatically enabled when the user assigns or unassigns a tag. If the user creates a classic session, the NFC is disabled.

About the reader

Menu 19 - Menu “Reader information”

	Item	Feature	Description of use
Reader information	1	S/N	Indicates the serial number of the reader
S/N: C143 00086	2	FW	Indicates the firmware version of the reader
FW: 2.40.00 – Apr 4 2018	3	HW	Indicates the hardware version of the reader
P/N: 30014-0A0	4	Memory used	Indicates the percentage of the memory used.
Memory used: 7%	5	Files used	Indicates the number of sessions saved in the reader.
Files used: 18/400	6	Batt	Indicates the battery charge level in percentage.
Batt: 87%			

Connect the reader to a PC

This section is meant to describe how to connect the reader to a smartphone or to a personal computer (PC). The device can connect in 3 ways: a wired USB connection, a wired RS-232 connection, or by a wireless Bluetooth® connection.

Using USB interface

The USB port allows the device to send and receive data via a USB connection.

To establish a USB connection, simply connect the reader to a PC with the data-power cable provided with the product.



- 1 Remove the protective cap covering the reader's cable connector and guards the reader against foreign material contamination.
Install the data-power cable by engaging it into the connector and rotating the lock-ring.



- 2 Plug the USB extension into a USB port on your computer.



Note 34 – Once the USB cable is connected, the reader is automatically powered on and it will remain activated until the cable is disconnected. The reader will be able to read a tag if a sufficiently charged battery is inserted. With a depleted battery, the reader will not be able to read a tag, but will remain on and can only communicate with computer.



Note 35: The reader cannot read tags if there is no battery and no external power supply. Therefore, it is not possible to read an ear tag although the other functions are fully active.



Note 36 – Install the PC software provided on the CD-ROM first in order to pre-install USB drivers for the reader. When you will connect the reader, Windows will automatically find the driver and install the reader properly.

Using serial interface

The serial port allows the device to send and receive data via an RS-232 connection.

To establish a RS-232 connection, simply connect the reader with a PC or a PDA with the data-power cable.

The RS-232 serial interface comprises a 3-wire arrangement with a DB9F connector, and consists of transmit (TxD/pin 2), receive (RxD/pin 3), and ground (GND/pin 5). This interface is factory configured with the default settings of 9600 bits/second, no parity, 8 bits/1 word, and 1 stop bit (“9600N81”). These parameters can be changed from the PC software.

Serial output data appears on the device’s TxD/pin 2 connection in ASCII format.



Note 37 - The RS-232 interface is wired as a DCE (data communications equipment) type that connects directly to the serial port of a PC or any other device that is designated as a DTE (data terminal equipment) type. When the device is connected to other equipment that is wired as DCE (such as a PDA), a “**null modem**” adapter is required in order to properly cross-wire transmit and receive signals so that communications can occur.



Note 38 - The reader’s serial data connection can be extended using a standard DB9M to DB9F extension cable. Extensions longer than 20 meters (~65 feet) are not recommended for data. Extensions longer than 2 meters (~6 feet) are not recommended for data and power.

Using Bluetooth® interface

Bluetooth® works on a premise that one end of the communication will be a MASTER and the other a SLAVE. The MASTER initiates communications and looks for a SLAVE device to connect to. When the reader is in SLAVE mode it can be seen by other devices such as a PC or smartphones. Smartphones and computers usually behave as MASTERS with the reader configured as a SLAVE device.

When the reader is configured as a MASTER it cannot be connected by other devices. Readers are typically used in a MASTER mode configuration when it only needs to be paired with a single device such as a scale head, PDA, or Bluetooth printer.

The reader is equipped with a Class 1⁶ Bluetooth® module and is compliant with the Bluetooth® Serial Port Profile (SPP) and the Apple’s iPod® Accessory Protocol (iAP). The connection can be in slave mode or in master mode.

Note 39 – Understanding the Bluetooth® icon:



Disabled	Slave mode		Master mode		
	Blinking	Fixed	Blinking	Fixed	Fixed
No icon					
	Not connected	Connected	Not connected	Connected	Connected with HID profile



Note 40 – A single beep is emitted with a visual message when the Bluetooth® connection is established. Three beeps are emitted with a visual message when the disconnection occurs.

⁶ Operating distance of communication is around 100 m (330 ft).



Note 41 – when the Bluetooth is connected with the HID profile, the reader can use in virtual keyboard with computer or tablet.

If you are using a smartphone or a PDA, an application is required (not supplied). Your software supplier will explain how to connect the PDA.



Note 42 - We advise that to achieve successful Bluetooth® connection with your reader, simply follow the implementation methods listed (see the following).

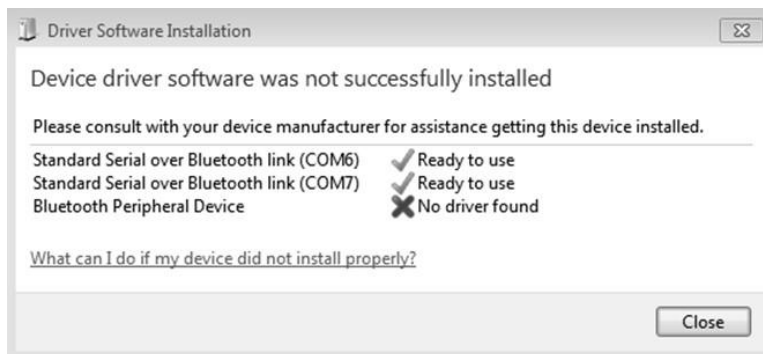


Note 43 - If these implementation methods are not followed, the connection may become inconsistent, thus causing other reader related errors.



Note 44 - When Windows 7 installs Bluetooth® drivers, it is normal that the driver for "Bluetooth® Peripheral Device" is not found (see picture below). Windows cannot install this driver because it corresponds to Apple iAP service needed to connect with iOS devices (iPhone, iPad).

For reader to PC connection, only "Standard Serial over Bluetooth link" is needed.



Bluetooth® – Known Successful Methods

There are 2 scenarios to correctly implement the Bluetooth® connection. They are as follows:

1. Reader to a Bluetooth® adapter connected to a PC, or to a Bluetooth® enabled PC or PDA.
2. Reader to a Bluetooth® adapter connected to a scale head, or to a Bluetooth® enabled device, such as scale head or printer.

These options are discussed in further details below.

Reader to a Bluetooth® adapter connected to a PC, or to a Bluetooth® enabled PC or PDA

This scenario requires that a process called « Pairing » be undertaken. On the reader, go to the menu “Bluetooth”, and then select “slave” in the sub-menu “select device” to remove the previous pairing and allow the reader to return to SLAVE mode.

Start your PC Bluetooth® Manager program or PDA Bluetooth® services,

Depending on which Bluetooth device your PC is using the Bluetooth Manager may vary in how it pairs a device. As a general rule the program should have the option to “Add a Device” or “Discover a Device”.

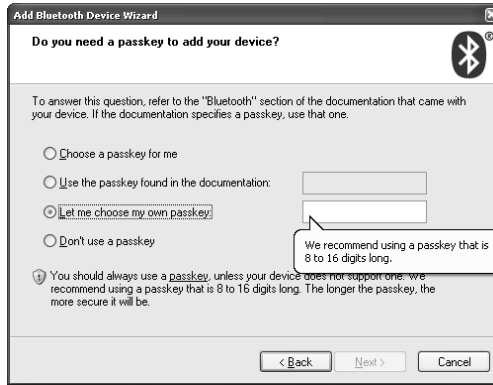


With the reader turned on, select one of these options. The Bluetooth® program should open a window within one minute showing all Bluetooth enabled devices in the area. Click on the device (the reader) you want to connect to and follow the steps provided by the program.



The program may ask you to provide a “Pass Key” for the device. As noted in the following example, select the option “Let me choose my own passkey”. The default passkey for the reader is:

1234



The program will assign 2 communication ports for the reader. Most applications will use the outgoing port. Make note of this port number for use when connecting to a software program. If this fails use the following links, search the reader in the peripheral list and connect it. You have to add an outgoing port that makes a connection to the device. Follow the steps described in the links below.


For Windows XP: <http://support.microsoft.com/kb/883259/en-us>


For Windows 7: <http://windows.microsoft.com/en-US/windows7/Connect-to-Bluetooth-and-other-wireless-or-network-devices>

Reader to a Bluetooth® adapter connected to a scale head, or to a Bluetooth® enabled device, such as scale head or printer.

This scenario requires that the reader lists the Bluetooth® peripherals. Go to the menu “Bluetooth”, then the sub-menu “Select device” and select “Search new device...”. This will start the Bluetooth® scanning.

The device you want to connect to will be displayed on the reader. Use the green button to scroll to the desired device. Select the device by depressing the black button on the reader. The reader will now connect in MASTER mode.

 **Note 45** - Sometimes, the Bluetooth® authentication have to be enabled/disabled on the reader to establish the connection with a remote device. See Menu 6 to switch authentication on/off.

 **Note 46** – Your reader can connect to iPhone and iPad (Follow instruction above).

Connect the reader to an USB flash drive

USB adapter (ref. E88VE015) allows you to connect to an USB Flash Drive (Formatted in FAT).

With this equipment, you can import and/or export sessions (see Note 26).

The imported sessions must be a text file, named “tag.txt”. The first line of the file must be either EID or RFID or TAG. The format of the ear tag numbers must be 15 or 16 digits (999000012345678 or 999 000012345678)

Example of file “tag.txt”:

```
EID
999000012345601
999000012345602
999000012345603
```

Power Management

The RS430NFC uses a 7.4VDC – 2800mAh Li-Ion rechargeable battery pack, which serves as its primary power source. This feature adds hours of scans with a fully charged battery.



Alternately, the reader can be powered and used indoors only by the following methods:

1. From its AC Adapter. Once the external AC adapter is connected, the reader is powered-up, it will remain on until the AC adapter is disconnected, and the Battery Pack is charged. The reader can be powered regardless of the charge state of the Battery Pack. The AC Adapter can be used as a power source⁷ even if the Battery Pack has been removed from the device. If the AC Adapter has been connected, the user may proceed with configuration and performance testing while the Battery Pack is charging. This configuration could affect reading performances.
2. From its DC power supply cable with alligator clips⁸: You can connect your reader to any DC power supply (between minimum 12V DC and maximum 28V DC) such as a car, truck, tractor, or battery (see picture below). The reader is connected through the socket located on the back of the reader data-power cable as shown in step 2 (see chapter “Getting Started”).

⁷ Except for Flex Tag reading

⁸ Only proposed for Australia/New-Zealand



Connect the **black** alligator clip to the negative terminal (-).
Connect the **red** alligator clip to the positive terminal (+).

At the top of the screen, the icon of the battery level shows the discharge level as well as the charge level during the charge mode.

Display	Summary
	Good
	Quite good
	Medium
	Slightly depleted, but sufficient
	Depleted. Recharge the battery (Low battery message will show)

Reader power instructions



Note 47 - The reader is designed to operate only with the Battery Pack provided. The reader will not operate with individual battery cells of either disposable or rechargeable variety.



CAUTION
RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.



Note 48 - Do not use this reader near water when connected to the AC/DC adapter.



Note 49 - Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus that produce heat.



Note 50 - Do not charge the battery pack from AC main sources during electrical storms or when unused for long periods of time.



Note 51 - The reader is protected for reverse polarity connections.

Battery handling instructions

Please read and follow the handling instructions for the battery before use. Improper use of the battery may cause heat, fire, rupture, and damage or capacity deterioration of the battery.

Caution

1. Do not use or leave the battery in high heat environments (for example, at strong direct sunlight or in a vehicle in extremely hot weather). Otherwise, it can overheat, ignite, or battery performance will be degraded, thus shortening its service life.
2. Do not use it in a location where static electricity is rich, otherwise, the safety devices may be damaged, causing a harmful situation.
3. In case the electrolyte gets into the eyes due to the leakage of battery, do not rub the eyes! Rinse the eyes with clean running water, and seek medical attention immediately. Otherwise, it may injure eyes or cause a loss of sight.
4. If the battery gives off an odor, generates heat, becomes discolored or deformed, or in any way appear abnormal during use, recharging or storage, immediately remove it from the device and place it in a container vessel such as a metal box.
5. Power or charge failure may occur due to the poor connection between the battery and the reader if the terminals are dirty or corroded.
6. In case the battery terminals are corroded, clean the terminals with a dry cloth before use.
7. Be aware that discarded batteries may cause fire. Tape the battery terminals to insulate them before disposal.

Warning

1. Do not immerse the battery in water.
2. Keep the battery in a cool dry environment during storage periods.
3. Do not use or leave the battery near a heat source such as fire or heater.
4. When recharging, use only the battery charger from manufacturer.
5. The battery charge should be realized indoors at a temperature between 0° and +45°C.
6. Do not let the battery terminals (+ and -) contact any metal (like ammunition, coins, metal necklace or hairpins). When carried or stored together this may cause short-circuit, or severe bodily damage.
7. Do not strike or puncture the battery with other objects, or use in any way other than its intended use.
8. Do not disassemble or alter the battery.

Notice

1. The battery should only be charged and discharged using the proper charger supplied by the manufacturer.
2. Do not replace the battery with other manufacturer's batteries, or different types and /or models of batteries such as dry batteries, nickel-metal hydride batteries, or nickel-cadmium batteries, or a combination of old and new lithium batteries together.
3. Do not leave the battery in a charger or equipment if it generates an odour and/or heat, changes color and/or shape, leaks electrolyte, or cause any other abnormality.
4. Do not discharge the battery continuously when it is not charged.
5. It is necessary first to fully charge the Battery Pack as described in the section "Getting Started" before using the reader

Accessories for the reader

Plastic Carry Case

Durable Plastic Carry Case is available as an optional extra or is included in the “Pro Kit” Package.



TROUBLESHOOTING

■ EAR TAG NOT DETECTED:

- Verify that RS430NFC is able to read test ear tag provided on key chain.
- Confirm that scanning is being performed away from metal objects and computer equipment, including metal collars and metal tags and away from stainless steel table.
- Scan animal following patterns on page 8, with slow. If the animal moves too quickly, the ear tag may not be located in the reading zone long enough for the ID code information to be obtained.
- Replace batteries if power is weak, as it might not be sufficient to activate the field and reading distances can be reduced.

■ EAR TAG IS FOUND BUT NOT STORED IN MEMORY.

- Verify scanner reads test ear tag
- Verify Memory is enabled.

■ CANNOT DOWNLOAD MEMORY: Make sure memory is enabled in reader settings.

■ READER DOES NOT START: Verify batteries have been installed correctly and have full charge.

■ LOW BATTERIES: If reader displays “Low battery” with rechargeable cells: Recharge the batteries

■ DEPLETED BATTERIES: If reader displays “Battery depleted” with rechargeable cells: Recharge the batteries

■ BLUETOOTH NOT VISIBLE: Check Bluetooth icon appears on the reader. If not, enable Bluetooth using **Erreur ! Nom de propriété de document inconnu.**

■ BLUETOOTH VISIBLE BUT NOT CONNECTABLE: Make sure your reader is configured to be visible and connectable in **Erreur ! Nom de propriété de document inconnu.** (Refer to **Erreur ! Nom de propriété de document inconnu.** User Guide on the CD for more information)

■ INCORRECT DATE / TIME: Connect the reader to **Erreur ! Nom de propriété de document inconnu.**, this will synchronize the date and time with the computer.

■ NO BATTERIES: if there are no cells inside the reader, it will beep when USB charger is plugged.

Specifications

General	
Norms	ISO 11784 and full ISO 11785 for FDX-B and HDX tags ISO 15693 for cSense™ or eSense™ Flex Tags
User interface	Graphical display 128x128 dots 2 keys Buzzer and Vibrator Serial port, USB port and Bluetooth® module
USB interface	CDC class (Serial emulation) and HID class
Bluetooth® interface	Class 1 (up to 100m) Serial Port Profile (SPP) and iPod Accessory Protocol (iAP)
Serial interface	RS-232 (9600N81 by default)
Memory	Up to TBD sessions with max. TBD animal IDs per session Approx. TBD animal IDs ⁹
Battery	7.4VDC – 2800mAh Li-Ion rechargeable
Date/Time autonomy	TBD weeks without reader usage @ 20°C
Battery charge duration	TBD hours
Mechanical and physical	
Dimensions	Long reader: 670 x 60 x 70 mm (26.4 x 2.4 x 2.8 in)
Weight	reader with battery: TBD g (TBD oz)
Material	ABS-PC and fiberglass tube
Operating temperature	Outdoor -20°C to + TBD °C (+4°F to + TBD °F) Indoor with charger: 0°C to + TBD °C
Storage temperature	-30°C to +70°C (-22°F to +158°F)
Humidity	0% to 80%
Radiated power on frequency band range	
Maximal radiated power in band from 119 kHz to 135 kHz:	TBD dBμA/m at 10 m
Maximal radiated power in band from 13.553 MHz to 13.567 MHz:	TBD dBμA/m at 10 m
Maximal radiated power in band from 2400 MHz to 2483.5 MHz:	TBD mW
Reading	
Distance for ear tags (cattle)	Up to 42 cm (16.5 in) depending on tag type and orientation
Distance for ear tags (sheep)	Up to 30 cm (12 in) depending on tag type and orientation
Distance for implants	Up to 20 cm (8 in) for 12-mm FDX-B implants
Distance for cSense™ Flex Tag	Up to 5 cm below the reader tube
Distance for eSense™ Flex Tag	Up to 0.5 cm in front of the reader tube

⁹ The quantity of storable animal ID depends on different factors: use of additional data fields (comparison sessions, data entry), number of ID stored per session.

Reader physical integrity

The device has been built from rugged and durable materials to withstand use in harsh environments for long periods of time. However, the reader contains electronic components that can be damaged if they are deliberately exposed to extreme abuse. This damage can adversely affect, or stop the reader's operation. The user must avoid deliberately striking other surfaces and objects with the device. Damage that results from such handling is not covered by the warranty described below.

Limited Product Warranty

Manufacturer guarantees this product against all defects due to faulty materials or workmanship for a period of one year following the date of purchase. The warranty does not apply to any damage resulting from an accident, misuse, modification or an application other than that described in this manual and for which the device was designed.

If the product develops a malfunction during the warranty period, manufacturer will repair or replace it free of charge. The cost of shipment is at the customer's expense, whereas return shipment is paid by manufacturer.

Refer all servicing to qualified service personnel. Servicing is required when the reader has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

Regulatory Information

USA-Federal Communications Commission (FCC)

This device complies with part 15 of FCC rules. 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.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of 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. If not installed and used in accordance with the instructions, it may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by tuning the equipment off and on, the user is encouraged to try and correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the distance between the equipment and the receiver.
- Connect the equipment to outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

This portable equipment with its antenna complies with FCC's radiation exposure limits set forth for an uncontrolled environment. To maintain compliance, follow the instructions below:

- (1) This transmitter must not be co-located or operating with any other antenna or transmitter;
- (2) Avoid direct contact to the antenna or keep contact to a minimum while using this equipment.

Notice to consumers:

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Canada - Industry Canada (IC)

This device complies with Industry Canada's license-exempt RSSs. Operation is subject to the following two conditions:

- (1) This device may not cause interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- (1) L'appareil ne doit pas produire de brouillage ;
- (2) L'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

This portable equipment with its antenna complies with RSS102's radiation exposure limits set forth for an uncontrolled environment. To maintain compliance, follow the instructions below:

- (3) This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
- (4) Avoid direct contact to the antenna, or keep contact to a minimum while using this equipment.

Cet équipement portable avec ses antennes est conforme aux limites d'expositions de la CNR102 applicables pour un environnement non contrôlé. Pour maintenir la conformité suivez les instructions ci-dessous :

- (3) Cet émetteur ne doit pas être co-localisé ou opérer en conjonction avec toute autre antenne ou émetteur.
- (4) Évitez tout contact direct avec l'antenne ou gardez le contact au minimum pendant l'utilisation de cet équipement.

Miscellaneous Information

Snapshots are according to the latest version at the moment this document was released. Changes may occur without notice.

Trademarks

Bluetooth® is a registered trademark of Bluetooth SIG, Inc.

Windows is a trademark or registered trademark of Microsoft Corporation in the United States and/or other countries.

All other trademarks are trademarks of their respective owners.

Apple - Legal Notice

iPod, iPhone, iPad are a trademark of Apple Inc., registered in the U.S. and other countries.

“Made for iPhone,” and “Made for iPad” mean that an electronic accessory has been designed to connect specifically to iPhone, or iPad, respectively, and has been certified by the developer to meet Apple performance standards.

Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.

Please note that the use of this accessory with iPhone or iPad may affect wireless performance.



Regulatory Compliance

ISO 11784 & 11785

This device complies with the standards set forward by the International Standardization Organization. Specifically, with standards:

11784: Radio frequency identification of animals -- Code Structure

11785: Radio frequency identification of animals -- Technical Concept.

FCC: NQY-30020

IC: 4246A-30020

Declaration of conformity

ALLFLEX EUROPE S.A.S. hereby declares that the radio equipment type RS430NFC complies with the directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address: <https://www.allflex-europe.com/fr/animaux-de-rente/lecteurs/>

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