Read Tags

When the Reader is powered on, the main menu screen will be displayed with the Read Tags icon highlighted.

Press the **OK** button to start reading tags.

To read a tag

Squeeze the trigger on your Reader and pass the antenna near the tag. A red light will show on the antenna when the reader is attempting to read a tag.

A beep sounds, a vibration is felt in the handle, and the screen updates with the Electronic ID tag information, to indicate a successful tag read.

Important: If the Beeper and Vibrator have been turned off in Settings, a successful tag read will only be indicated by the tag information changing on the screen.

The fields on the Read Tags screen will vary depending on the Session settings. See *Sessions* (p.8).

The tag number displayed in the big ID field will vary depending on your Tag Display setting. See *Tag Display* (p.10).

Note: If using sorting for the session and group colours are assigned in APS, the sort group colour will appear behind the read tag in the Big ID field.

Count or 'No:' The counter will increment each time a tag is read to show the number of animals in the current session.
The 'No:' field on the lower left of the screen can be selected to scroll back through the previous animals in the session.

If Record traits = **NO**   If Record traits = **YES**

Traits included in this session

No soft key assigned | Tags counted in this session | Press soft key below to view animal history and animal notes | Press soft key below to Edit trait values | Press soft key below to Delete tag shown

Sort Lists

A sort list contains a list of animal IDs, each with a sorting assignment. This assignment may be used to separate animals into predefined groups, or to flag specific animals for selection.

The Sort Lists screen shows all the sorting lists available on the reader. These lists are imported from APS.

To view a sort list

1. From the Main Menu, select **Sort Lists** and press **OK**. The sort lists available on the HR4 display.

2. To view the contents of a sort list, select a list and press **OK**.

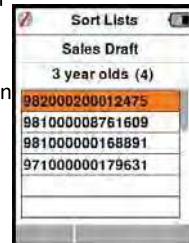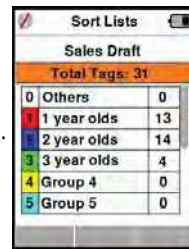   A list of groups that make up the sort list display.

   If sort colours have been set up with groups in APS, then the group colour will be displayed behind the group number.

   The number of tags scanned into each group is displayed next to the group name.

   • To view the sorted animal IDs within a group, select the group to be viewed and press OK.

   • A list of animal IDs (VID or EID as set in the Tag Display screen) are shown.

3. Press the **Return** key once to go back to the sort list and again to return to the Main Menu.

Note: The sort list 'Empty List' is the factory default and contains no animals. This can be used to assign sort groups to each animal as it is scanned, rather than from a predefined list.

Sort lists are compiled or edited in APS then downloaded to the reader. Changes made to a list will be effective for all sessions that use the list <u>after</u> the change is made.

Traits ☑ ABC ☐ 123 ☐ AB2

The Traits screen lists all the traits available on the reader which have been imported from APS or are the factory default traits. These traits can be assigned to an animal in a session.

To view a list of values for a trait

1. From the Main Menu, select Traits and press **OK**. A list of the traits available on the HR4 will be displayed.

2. To view the trait values, select a trait and press **OK**.

3. Press the **Return** key once to go back to the trait list and again to return to the Main Menu.

Notes:

A trait can only be deleted if it is not used in any session on the reader by pressing the **Delete** soft key. A pop up message will either ask you to confirm the deletion or advise which session the trait is still in use.

Life data traits that have been assigned to an animal cannot be deleted on the Reader.

See *APS Standard User Guide* for more information on traits.

Settings ⚙

The Settings screen is accessed directly from the Main Menu screen and is a quick way to turn functions on and off using the arrow keys.

Setting	Options	Description
Backlight	On* (5 minutes) Off	Controls the backlight of the Reader. Time-out period can be configured via APS.
Cont. Read	Off*	Reader stops transmitting once a single tag is read.
	On	Reader continues to transmit following tag read, allowing multiple tags to be read.
Read Timer	On*	Determines time allowed for transmitting a tag read: Continuous Read - 5 minutes* Non-Continuous Read - 5 seconds* Time-out period can be configured via APS.
	Off	Unlimited read time. Time-out will occur with power off time-out
Vibrator	On* Off	A successful tag read is confirmed with a vibration in the handle.
Beeper	On* Off	A single beep can be heard after a successful Electronic ID tag read. Two beeps are heard on a duplicate tag read.
Notes Alert	On* Off	Any pop-up note alerts that have been recorded against the animal will halt tag reading and have to be acknowledged before reading can continue.
Time	10:03 AM	The current time is displayed. Select and press **OK** to change the time.
Date	Y-M-D*, M-D-Y, D-M-Y.	Select and press **OK** to set the date format and date. Time and Date are used to create Session names.
Zone	NZL - NZST*	Indicates the time zone. Select and press **OK** to change country zone and set time and date automatically.
Language	English, Dutch French, German Spanish, Portuguese	Select and press **OK** to change the language.

*Default settings

Changing Settings

1. Use the up and down arrows to scroll to each function to select it.

2. Use the left and right arrows to turn the function **On** or **Off**.

3. For the Time and Date fields, select the field and press **OK**. Use the field arrows to select the correct time and date.

4. Press the **Return** key to save changes and return to the Main Menu.

Note: APS can be used to alter advanced time-out settings. Refer to the *APS Standard User Guide - Device Sub Menu - Setup* for further details.

English

Wireless

The HR4 Reader is both Bluetooth and WiFi enabled and can be searched for and connected to by other devices (Discoverable), or perform a search to initiate the connection itself. Only one Bluetooth or WiFi device can be connected to the reader at any time.

Note: WiFi functionality is only available on HR4 v2 hardware.

Icon Descriptions

Icon		Description
	Flashing	Searching for a Bluetooth or WiFi device
	Steady Blue	Bluetooth or WiFi device connected
	Grey / Red line	No Bluetooth or WiFi connection active, but Reader is **Discoverable,** or Reader is trying to connect to a device.
	No icon	Bluetooth or WiFi disabled

Wireless Setup

1. From the Main Menu screen, use the arrow keys to select the Wireless icon and press **OK**.

2. The Wireless screen will display, showing the last known connection as either Bluetooth (default for first time connections) or WiFi.

   To change the type of communication, select the field where Bluetooth or WiFi is displayed and press **OK**. Use the arrow keys to change the communication type and press **OK**.

   Note: Selecting **None** will turn off Bluetooth and WiFi, and will save battery power if a communication connection is not required.

3. The connection status and device table display and the connection status changes to 'Discoverable' mode.

Note:
The table will be empty if no devices have previously been found. Any previously connected devices will be displayed in parentheses, e.g. '(Gallagher-TSi)'.
The Reader can now be searched for and found by other devices (Discoverable). The status of the current connection is displayed on the screen.

4. To initiate a connection from the HR4 Reader, press the **Search** softkey.
   This will search for new Bluetooth or WiFi devices in range. As the name of each device is received it will be displayed, replacing the Bluetooth or WiFi address.

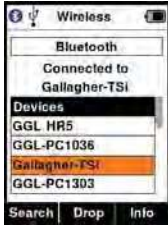5. Use the arrow keys to select a device to connect to and press the **OK** button.
   The connection status will change to **Trying to connect...**

Note: The HR4 can be configured to send and/or receive data from other devices via Bluetooth and WiFi.

See *Info soft-key* (*following page*) for further details when connecting to Bluetooth.

6. Press **Return** key to save settings and return to the Main menu.

Important: You may be prompted for a passkey code to complete the Bluetooth pairing or WiFi connection.

Note: If the connection is not dropped, the device will attempt to reconnect once, when next powered up.

Info soft-key

When a connected Bluetooth or WiFi device is highlighted, the right hand soft-key becomes **Info**. Pressing this button allows viewing of information about the connected device.

When connected to a Bluetooth device, **Option** displays the following fields:

None (default)	Only EID data is sent over Bluetooth. Commonly used with weigh scale connections.
Printer	Allows for session summary data to be sent to a Bluetooth printer from various screens on the HR4

Note: WiFi passkeys can be configured in APS for the HR4.

POWER OPTIONS

When the HR4 is fully charged, it is expected to operate for 3–4 working days in typical yard applications.

Charge time will vary depending on the capacity of the power adapter. Fastest charging is achieved via the mains adapter when the reader is off (approximately 8 hours).

Important: It is recommended the Gallagher 5 VDC USB charger, supplied with your HR4 reader, is used when charging off mains power.
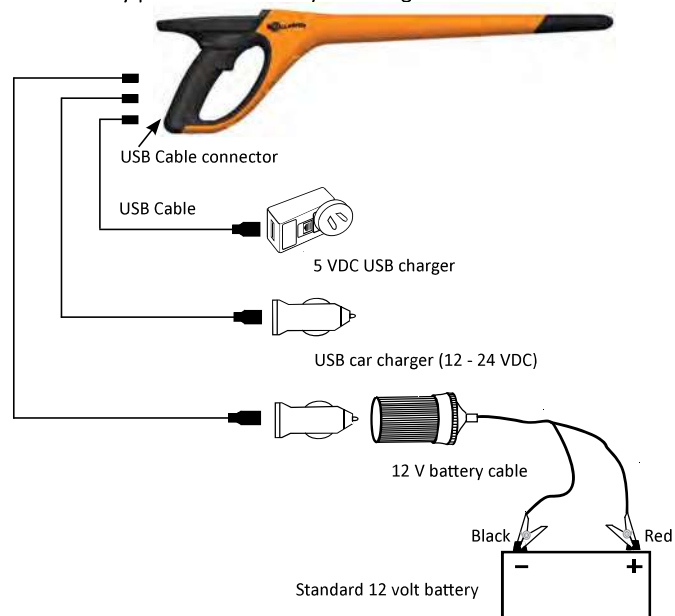
Note: Tags cannot be read while the Reader is connected to mains power. The Reader will operate while being charged using the car charger, battery or PC, however charging will take longer while the Reader is in use with the backlight on.

Charging the Handheld EID Reader

The internal battery of the Reader can be charged using :

- a 5 VDC USB mains power adapter
- the 12–24VDC USB car charger included with the Reader
- a 12 V vehicle battery.

Connect the components needed (supplied with your HR4) for your preferred charging method as shown below and plug into the necessary power source for your charger.

USB Cable connector

USB Cable

5 VDC USB charger

USB car charger (12 - 24 VDC)

12 V battery cable

Black   Red

Standard 12 volt battery

Battery Icon Status

Operation

During operation, the battery icon on the Reader screen indicates the actual amount of charge left in the battery. An estimate of the remaining battery percentage can be found in the **Information** screen on the Main Menu.

Fully charged		The battery icon displays as full with a solid black block.
Partially charged		The battery icon displays a graduated indication that approximately represents the remaining charge left in the internal battery pack.
Almost flat		When the level of charge is less than 10% the bar turns red. At 5% the battery outline flashes as well.

Charging

When the Reader is connected to a charger, the battery icon displays a charging status as follows:

Charging		The battery icon shows the battery constantly filling from the point of the remaining charge.
Trickle charging		Battery icon shows only one clear bar that is constantly travelling the length of the full icon.
Over / Under Temperature		Ambient temperature is outside recommended range of 0–45°C. The reader will not charge above 45°C.
Charging Error		There is a condition preventing charging, e.g. excessive supply voltage. Check all connections.

CONNECTING THE HR4 TO A COMPUTER

In order to view or alter advanced settings on the HR4, you need to establish a connection between the HR4 and a PC/laptop that has APS software installed.

• Plug the USB cable supplied with the HR4 into the Hand Held Reader.

• Plug the other end of the cable into a USB COM port on your computer.

• Turn on the Reader.

• Use your APS software to configure advanced settings.

See the *APS User Guide* for further details.

Note: Settings can also be updated using a WiFi connection.

CARE AND MAINTENANCE

The Gallagher HR4 Hand Held EID Tag Reader is a tough and reliable product designed for use in typical livestock environments. However, proper care and maintenance can extend the Reader's life.

Listed below are guidelines for keeping the Reader in good condition.

• For optimal battery life, Gallagher recommends that you store the Reader in a cool, dry area (10 to 30 ° Celsius) inside the supplied hard case and out of direct sunlight.

• After use, clean the Reader with a damp cloth. Take care not to scratch the display.

• Recharge the batteries after use and before storing for extended periods.

• Ensure the dust cap is pushed onto the USB cable connector on the reader after charging to prevent dirt and dust entering the connector.

SPECIFICATIONS

Internal battery type:	Nickel-metal hydride
Internal battery voltage:	9.6 volt
Typical charge time on mains charger:	8 hours
IP (Ingress Protection) Rating:	IP67
Operating temperature range:	-10°C to +50°C
Storage temperature range:	-10°C to +30°C

WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT

This symbol on the product or its packaging indicates that this product must not be disposed of with other waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city recycling office or the dealer from whom you purchased the product.

APPROVALS AND STANDARDS

English

FCC

This device complies with Part 15 of the 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 received, including interference that may cause undesired operation.

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.

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 or more 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.

CAUTION: Changes or modifications not expressly approved by Gallagher Group Limited could void the user's authority to operate the equipment.

Industry Canada

This device complies with Industry Canada licence-exempt RSS standard(s). 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.

The carrier frequency is 134.2 kHz, the RF output power is 75 dBμV/m @ 10 m.