



HAND HELD EID TAG READER & DATA COLLECTOR **HR4**

Instructions - ENG
Installatie instructies - NED
Notice d'installation - FRA
Benutzerhandbuch - DEU
Manual del Usuario - ESP
Instrukce - ČEŠ

PUBLISHED BY
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Hamilton, New Zealand

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Gallagher HR4 Hand Held EID Tag Reader & Data Collector
User Manual

3E3020 - Edition 9 - May 2018

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OVERVIEW

The Gallagher HR4 Hand Held EID Tag Reader & Data Collector is a Bluetooth and WiFi enabled reader that allows the user to read and store ISO animal Electronic tag ID numbers as well as record traits and activities against the ID. The Gallagher HR4 is also capable of sorting animals from a predefined list of Electronic IDs and it can read both HDX (Half Duplex) and FDX-B (Full Duplex) Electronic ID tags.

Kit Contents

The Gallagher HR4 box contains:

- Gallagher HR4 Hand Held EID Reader & Data Collector (Bluetooth enabled)
- 5 VDC USB charger (110-240 VAC)
- USB Car Charger (12-24 VDC)
- 12 volt battery cable
- USB cable
- Instruction manual
- Animal Performance Software (APS)

Animal Performance Software (APS)

APS can be installed on your PC from the CD provided with the HR4. It enables the transfer of data between the HR4 reader and a PC via Bluetooth, WiFi, or USB. APS can also be used with other Gallagher Weighing & EID equipment to serve as the main database for all of your animal information.

For further details refer to the APS User Guide (accessible via the Help menu in APS).

Charging the internal battery

Important: The HR4 Reader must be fully charged before first time use. It is recommended that the battery is charged overnight. It takes approximately 8 hours to fully charge the battery from mains power. The ambient temperature limits for charging the battery are 0° to 45° Celsius.

For more information about charging the battery, see *Charging the Handheld EID Reader* (p.19).

First Time Use

The very first time the Handheld Reader is powered up:

- select the language to be displayed; and
- verify the current date, time and time zone.

FEATURES



English

Feature	Description
Trigger	When in the 'Read Tags' (Collect) screen, pull the trigger to begin reading tags.
Light	The red light flashes when transmitting and illuminates continuously when a tag is read.
Vibrator	A single vibration is felt in the handle with every successful EID tag read.
Antenna	The HR4 antenna has a read range of 27–33 cm. Note: If there is more than one tag within range, neither tag may be read.
USB connector & Dust cap	The supplied USB cable connects to the HR4 via the connector beneath the dust cap. This cable enables: <ul style="list-style-type: none"> • data to be transferred to/ from a computer; and • the supplied USB charger to charge the internal battery. Replace the dust cap when cable not in use.
Memory	<ul style="list-style-type: none"> • Over 100,000 EID records can be stored in the HR4. • When the memory is 90% full, a pop up warning will display. • When the memory is full, no further tag reads will be accepted until one or more sessions have been deleted.

Auto Power Down

The HR4 will power itself down after 30 minutes of inactivity. This setting is only controlled via the APS software.

English

Screen & Keypad

Use the power key on the keypad to power up the HR4 and display the main menu options. See *Main Menu Screen* (p.7) for more information on accessing the screen functions.



Keypad Button Functions & Screen Icons

Key or Screen symbol	Description
	Power/ Standby Press to turn on or re-start the HR4. Hold for 3 seconds to turn off the HR4.
	Screen Navigation Keys Use these arrow keys for menu navigation and to select menu options.
	OK Used in conjunction with Navigation keys to confirm selection and may open another screen.
	Back/Return Key Press this key to exit a screen and return to the previous screen. It may need to be pressed more than once to return to the Main menu screen.
	Soft Keys Soft keys perform the function detailed directly above each button (available on some menu options).
	Battery icon Shows the level of charge remaining in the internal battery. See <i>Power Options</i> (p.19).
	Wireless icon Indicates if the internal Bluetooth or WiFi module is communicating with another device. See <i>Wireless</i> (p.16).
	USB icon Displays when the Reader is connected to a PC.

MAIN MENU SCREEN

When the Gallagher HR4 is powered up, the Main Menu screen is displayed. All actions on the reader are initiated from this screen via the keypad.

Use the arrow keys to navigate to the required menu option. Press the **OK** button to select it.



Main Menu Options & Icons

Icon	Name	Description
	Tag Display	Allows you to configure how the tag data is displayed. Refer to <i>Tag Display</i> (p.10) for more information.
	Sort Lists	Used to view the sort lists and their detail which have been loaded from APS to the reader. Refer to <i>Sort Lists</i> (p.12) for more information.
	Settings	Allows you to configure the reader. Refer to <i>Settings</i> (p.14) for more information.
	Traits	View traits or life data items that have been loaded to the reader from APS. Refer to <i>Traits</i> (p.13) for more information.
	Read Tags (Collect screen)	Used to read EID tags and record animal information. Read mode can be either single tag or continuous. Refer to <i>Read Tags</i> (p.11) for more information.
	Wireless	This menu allows the user to control the Bluetooth and WiFi settings of the reader. Refer to <i>Wireless</i> (p.16) for more information.
	Help	Displays help screens to aid with setting up and getting started on the HR4.
	Sessions	Sessions capture all the tag data read from a group of animals. Refer to <i>Sessions</i> (p.8) for more details.
	Info	Displays detailed memory and battery information as well as the model, software, hardware versions, and wireless address.

Sessions

All the data read by your HR4 reader is collected into sessions. A session **must** exist before the reader will read any tags.

The options available from the Session Menu are:

New Session	Use this to create and open a new session, ready to read tags.
Session Summary	Shows the current session name, starting date, and total tags read.
List all Sessions	Displays a list of all sessions stored in the reader. Sessions can be selected to delete, or open as current session.
Edit Current Session	Enables navigation to the current session so the user can change associated traits, activities, life data, or sort list, where allowed.

New Session

New sessions may be created for the following reasons:

- A new session is required for a new day's activity.
- A different group of animals are to be read into a separate session.

Adding traits to a session

On the HR4 Reader, a session can be configured so the user is able to assign trait values to the animal from a list of values. Up to three traits, activities, or life data fields can be specified for a session.

Note: If no traits or life data are specified for a session, the Read Tags screen will display animal count only.

Sort list execution in session

When setting up a new session, it is possible to select a sort list to apply to the animals scanned within the session. As the animals are scanned, their sort assignment will be displayed to the user, along with any colour that may have been assigned to the sort group.

Sort lists and group colours are configured in APS on the PC.

How to start a new session

1. From the Main Menu screen select the Session icon  and press **OK**.
2. On the Session Menu, select **New Session** and press **OK**.

The session name is automatically created based on the current date and an alphanumeric character.

3. To assign traits add/or a sort list to the session, use the arrow keys to select **Yes** if required for either option.
4. Press the **Next** softkey to proceed to session setup.
5. If **Yes** was selected for Record Traits, a list of traits available will be displayed.



- Use the arrow keys to select the required trait and press the **Select** softkey.
- Repeat to select up to three traits for the session.
- The order of the selected traits will be displayed as a number to the right of the trait.
- Press the **Next** softkey.
- If desired, a default value can be assigned to a trait by using the arrow keys to scroll through the options. This will automatically be applied to the animal once scanned but can be changed from the Read Tags screen during scanning.
- Press the **Next** softkey.



6. If **Yes** was selected for Sort by List, a table of available sort lists will be displayed.
- Use the arrow keys to select the required sort list, and press the **Next** softkey.

Note: Traits and sort lists are loaded to the reader via APS. Refer to the *APS User Guide* for further information.



7. The screen will display your session setup summary. Press the **Done** softkey to confirm session options and begin reading tags.

Note: Navigating away from the new session screen when trying to create a new session will result in the session being cancelled.

English

Tag Display VID Cross reference

The Hand Held Reader maintains a cross-reference table that links an animal's Electronic ID with the animal's Visual Tag Number. Once it makes this link, it will recall the Visual Tag Number the next time the Electronic ID is read.

Cross-reference information containing EIDs and corresponding VID's can be exported to the Hand Held Reader from APS in a session or Animal table. The VID is displayed above the Big ID box on the Reader screen and the EID is displayed below it when the tag is read. The numbers in the Big ID screen will be part of the EID or VID depending on your Tag Display setup.

Big ID on display

If there is a cross-reference table that provides the VID for the scanned animal, you will see both the EID and VID on the screen. The Big ID field can be configured to show the VID or EID. It can be used to highlight the part of the VID or EID that is most significant to you.

To Setup the Big ID field

- From the Main Menu, select the **Tag Display** icon  and



press **OK**.

- Using the arrow keys make field selections.

Digits	The number of digits (from 3 to 10) are shown in large type.
EID or VID	Indicates which ID is displayed in the Big ID box.
Offset	Determines the number of digits from the right of the VID that are ignored for the large digit display (only for VID).

- Press the **Return** key to exit to the Main Menu and save changes.