



# **Gallagher SmartReader BR Series Instruction Manual**

**PUBLISHED BY**

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Kahikatea Drive, Private Bag 3026  
Hamilton, New Zealand

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Gallagher SmartReader BR Series Instruction Manual

3E0680 - Ed 4 - January 2007

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# Overview

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The Gallagher SmartReader enables Electronic ID tags to be automatically read as animals pass by the SmartReader. The Electronic ID tag data can be downloaded and stored on a computer as required.



The Gallagher SmartReader has two parts:

- the Electronic Controller and
- the Antenna Panel.

The Electronic Controller contains the internal memory and internal rechargeable batteries. The Antenna Panel contains the aerial used to capture the Electronic ID tag data.

The internal rechargeable batteries run the Antenna Panel for up to 8 hours and internal memory can store up to 20 000 tag numbers.

Two Antenna Panel sizes are available to suit the animals being scanned.

There are two models in the Gallagher SmartReader BR Series:

- BR600
  - Small Antenna Panel (600 mm x 400 mm)
  - Electronic Controller with internal memory and internal rechargeable batteries.
  - Serial port (DB9) for downloading collected information to a computer or hand held device.
  - USB adapter
  - Recommended for use when scanning constrained animals (Sheep and cattle) and sheep on the move.
- BR1300
  - Large Antenna Panel (1300 mm x 600 mm)
  - Electronic Controller with internal memory and internal rechargeable batteries.
  - Serial port (DB9) for downloading collected information to a computer or hand held device.
  - USB adapter
  - Recommended for use when scanning animals (Cattle and Deer) on the move.

If required, multiple SmartReader's can operate in close proximity, so long as they are set up to ensure all Electronic ID tags are read correctly.

## Tag types read

The Gallagher SmartReader BR Series enables you to read both HDX (Half Duplex) and FDX-B (Full Duplex-B) Electronic ID tags.

HDX and FDX-B Electronic ID tags operate differently and therefore have different applications.

## Storage of Electronic Controller when not in use

For optimal battery life, Gallagher recommends that you store the Electronic Controller in a cool, dry area (15 to 25 ° Centigrade) out of direct sunlight.

## Configurator

The Configurator is a software program provided with the SmartReader. Use it to alter settings in the Electronic Controller and to diagnose performance problems when the SmartReader is installed.

The Configurator is for **advanced users** and should be used with care as altering settings affects the operation of the SmartReader.

The Configurator software is automatically installed with the MyScale Pro software.

## MyScale Pro

The MyScale Pro software enables you to transfer Electronic ID tag numbers stored in the SmartReader memory from the Electronic Controller to a computer.

**Note:** The Electronic Controller does not need to be connected to the panel for this activity.

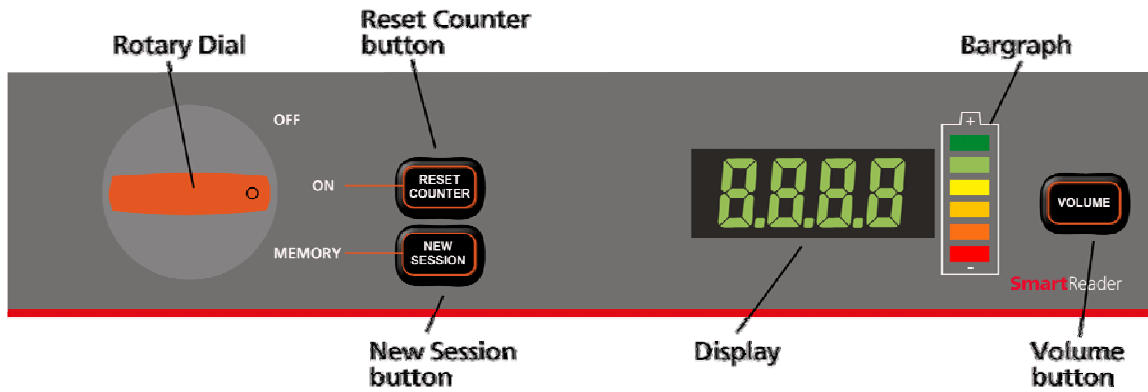
With MyScale Pro you can perform the following functions;

- Copy sessions from the Electronic Controller.
- Change session file names.
- View and Edit sessions.
- Print sessions.
- Create long term record storage using MyScale Pro to backup information from the Electronic Controller.

See *MyScale Pro* (p 42) for further details.

# User information

## Electronic Controller Features - BR



### Rotary dial

| Mode                 | Description   |
|----------------------|---|
| <p><b>OFF</b></p>    | <p>Electronic Controller is off.</p>  |
| <p><b>ON</b></p>     | <p>The Electronic Controller is on.<br/>The scanned Electronic ID data is sent out the Serial port (DB9). The data can then be captured by an external device such as a Scale or computer.<br/><b>Note:</b> Data is <b>not stored</b> in the internal memory.</p>   |
| <p><b>MEMORY</b></p> | <p>The Electronic Controller is on.<br/>The scanned Electronic ID data is:</p> <ul style="list-style-type: none"> <li>• saved to the internal memory, and</li> <li>• sent out via the Serial port (DB9) on the Electronic Controller. The data can then be captured by an external device such as a Scale or computer.</li> </ul> |



## Buttons

|                      |  |
|----------------------|--|
| <b>Reset Counter</b> | <p><b>Note:</b> Only operational when Electronic Controller is in ON mode.</p> <p>Press the <b>Reset Counter</b> button to reset the counter on the Electronic Controller.</p>   |
| <b>New Session</b>   | <p><b>Note:</b> Only operational when Electronic Controller is in MEMORY mode.</p> <p>Press the <b>New Session</b> button to create a new session on the Electronic Controller and add all new Electronic ID tag reads to this session.</p> <p>All previous sessions are maintained until they are downloaded to the computer via MyScale Pro.</p> <p>A new session is created each time the Electronic Controller is turned on.</p> |
| <b>Volume</b>        | <p>There are two volume levels on the Electronic Controller:</p> <ul style="list-style-type: none"> <li>• Off</li> <li>• On</li> </ul> <p>To change the volume on the Electronic Controller while it is operating, press the <b>Volume</b> button.</p> <p><b>Note:</b> Warning beeps (low battery warning etc) ignore the Volume setting and beep as required.</p>   |

## Audible beep

The Electronic Controller beeps whenever one of the following situations occurs:

- An Electronic ID tag has been read, except if the volume is set to **OFF**.
- The volume level is set. For more details on setting the volume *of the beep*, see Buttons (p 5).
- The battery charge level is low. This warning sounds regardless of the volume level setting.

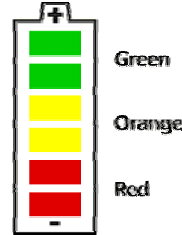
## Display

| <b>Message</b> | <b>Description</b>  |
|----------------|---|
| Blank          | The display is blank when the internal batteries are charging.  |
| <b>BATT</b>    | Displayed when the battery charge level is at a critically low level and the Electronic Controller is shutting down<br>For additional information, see <i>Low voltage shutdown</i> (p 17).  |
| <b>VOLT</b>    | Displayed when a power source providing a voltage greater than 16 V is connected to the Electronic Controller. The Electronic Controller automatically shuts down to protect the electronics.<br>For additional information, see <i>High voltage shutdown</i> (p 17). |
| <b>FULL</b>    | Displayed when the internal memory is full of Electronic ID tag data.<br>You need to download the Electronic ID tag data to a computer.<br><i>See Copy sessions from Electronic Controller to computer</i> (p 53).  |
| <Tag count>    | Displays the number of Electronic ID tags read in this session, or the counter was reset to zero.   |

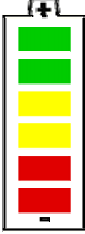


## Bargraph

The bargraph on the Electronic Controller is used to indicate the following:

- battery charge level
- battery charging
- beeper volume
- successful tag read




### Battery charge level

|                   |   |  |
|-------------------|---|--|
| Fully charged     |   | All bargraph lights are constantly displayed.  |
| Partially charged |  | Some bargraph lights are constantly displayed<br><b>Note:</b> The low battery warning will sound once only one red bar is remaining. |
| Flat battery      |  | No bargraph lights are displayed.  |



## Battery charging

When the SmartReader is connected to a battery charger, the bargraph displays the charging status:

|          |   |   |
|----------|---|---|
| Charging |  | <p>The battery level is indicated by the number of lights lit.</p> <p>The flashing bars indicate that charging is occurring.</p> <p><b>Note:</b> The battery charger controls the charging of the internal batteries and stops the charging once the batteries are fully charged.</p> |
|----------|---|---|

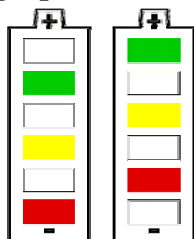
## Beeper volume

Press the Volume button to change the beeper volume.

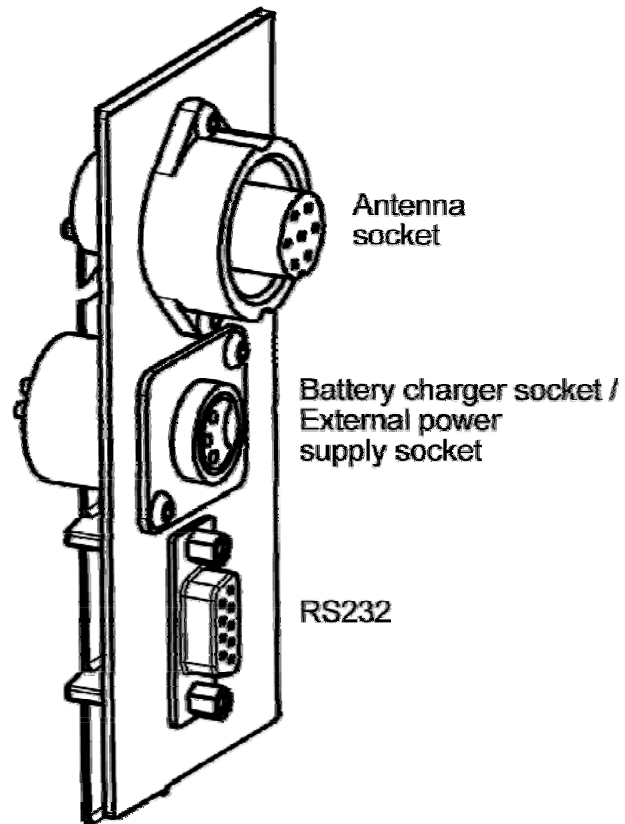
|            |   |
|------------|---|
| Volume on  |   |
| Volume off |  |

## Successful tag read

If set in the Configurator, each successful tag read triggers the bargraph to flash multiple times in an alternating pattern.



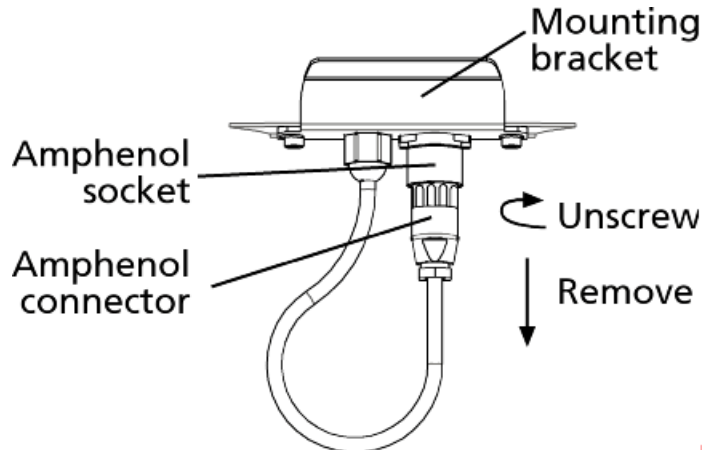
# Electronic Controller Connectors



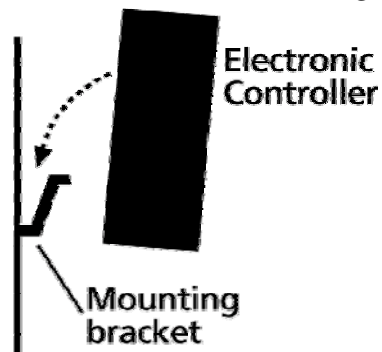
## Connecting the Electronic Controller to the Antenna Panel

For information on using the Extension Mounting Kit see *SmartReader Extension Mounting Kit installation* (p 76).

1. Ensure the Electronic Controller is turned off.
2. On the Antenna Panel, unscrew the Amphenol connector locking nut from the Amphenol socket and pull it down to unplug from the Antenna Panel.



3. Mount the Electronic Controller on the mounting bracket by grasping the Electronic Controller on both sides and slide the back handle onto the mounting bracket.



4. Connect the antenna cable to the Electronic Controller and tighten the locking nut.

