ID Code Format

This screen determines what parts of the captured data are sent out the Electronic Controller COM port.

The full data (as defined by the ISO 11784 standard) is saved to internal memory (BR Series only). MyScale Pro transfers all captured Electronic ID tag information to the connected computer when the session is transferred.

Both animal and non-animal tags can be processed as defined in the ISO standard.

Field delimiter

This option sets the field delimiter of the sent data. Used in conjunction with the **ID Code** field.

Number format

This option sets the number format the captured data is sent out the COM port, either Decimal or Hexadecimal.

Reserved field

This option determines whether the **Reserved field** data is included in the sent data. Unused in the current standard.

Data block flag

This option determines whether the **Data block flag** is included in the sent data.

Application code

> This option determines whether the **Application code** is included in the sent data. Applies to non animal Electronic ID tags only.

Command Prompt

> This option determines whether a Command prompt (>) is sent after to sending the data.

ID Code

> This option sets whether the data is sent out as formated or un-formated data.
>
> If the ID Code is sent out as **Formatted** the character defined in the **Field delimited** option is inserted between the blocks of data.

Leading zeros

> This option determines whether the **Leading zeros** are included in the sent data.

Country code

> This option determines whether the **Country code** is included in the sent data and if so, what format is used. Applies to animal Electronic ID tags only.
>
> Numeric - a three digit numeric country code is included in the data string sent out.
>
> ISO (alphnum) - a three digit alphanumeric country code is included in the data string sent out.

Initial character

> This option determines the initial character of the data. Used in conjunction with the **Tag Type ID** field.

Tag type ID

> This option determines the Tag type ID used to identify the beginning of the data. Used in conjunction with the **Initial character** field.

Panel Settings
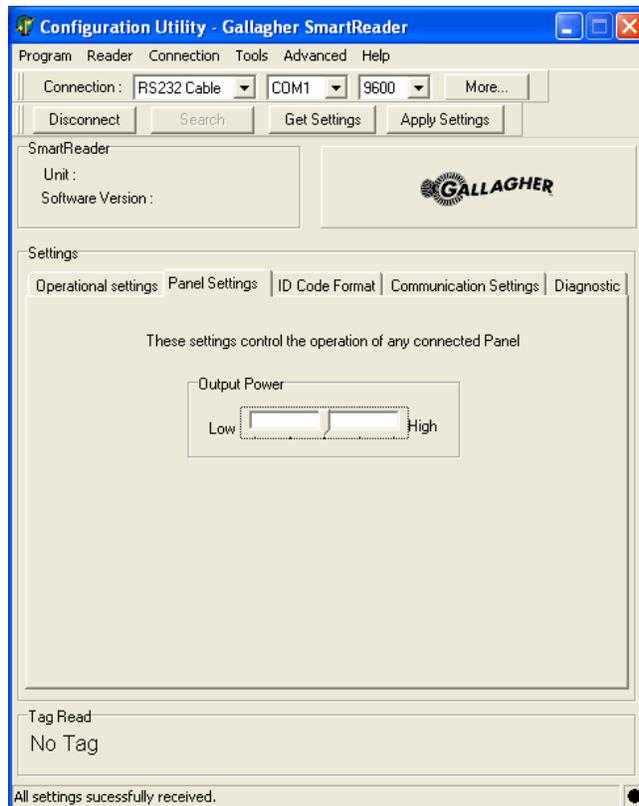
Output Power

This screen enables you to control the output power level of the connected Antenna Panel.

The higher the power setting, the more current is drawn from the batteries.

Note: You must use the highest power setting if you are reading FDX tags.

If you have multiple Electronic Controller installed on the site **AND** are only reading HDX tags you may reduce the power setting. This will minimise the interference between Electronic Controller and extend the battery life.

Communication Settings
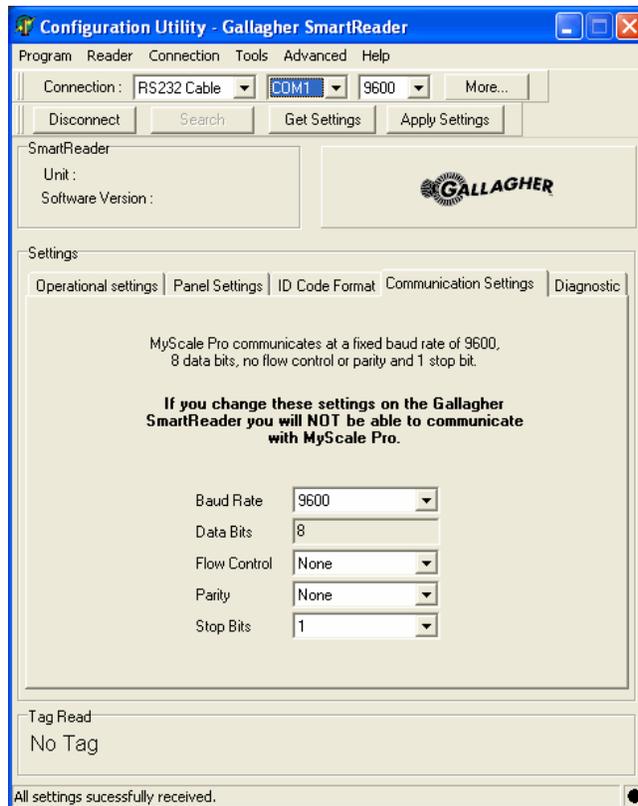
This screen sets up the connection between a Electronic Controller and a computer (datalogger, Scale etc) via RS232 or Bluetooth.

Once altered, these settings are saved to the PC only. To transfer the alterations to the Electronic Controller you must click Apply Settings.

Note: Changing these settings, from the defaults, **will cause** the communication between the Electronic Controller and MyScale Pro to fail.

Baud rate

This option sets the **Baud rate** of the connection. The default is 9600 bps.

Data bits

Fixed.

Flow control

This option sets the **Flow control** of the connection. The default is None.

Parity

This option sets the **Parity** of the connection. The default is No parity.

Stop bits

This option sets the **Stop bits** of the connection. The default is 1.

Diagnostics
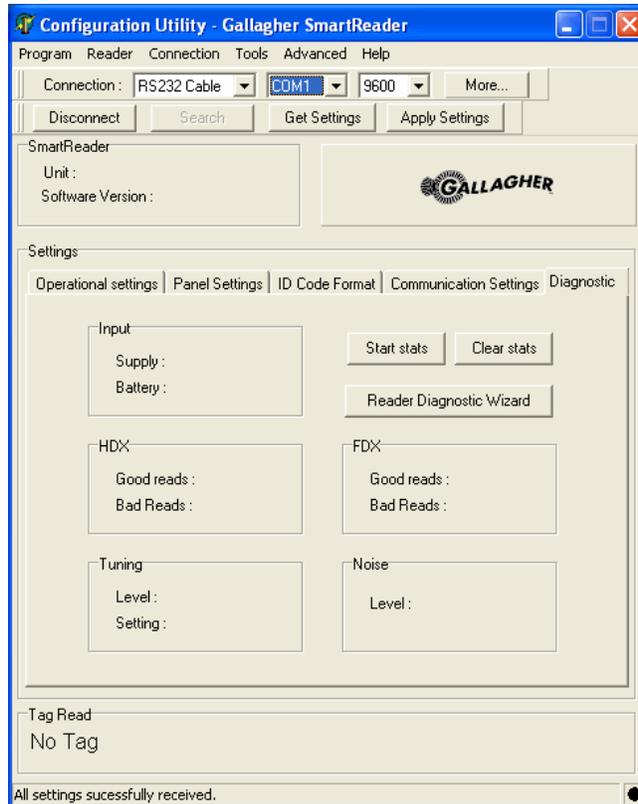
This screen enables you to:

- view statistics on the functionality of the Electronic Controller and Antenna Panel, and
- run the diagnostics wizard.

Start Stats

To display statistics, click [Start stats].

Stop Stats

To stop the display of statistics, click [Stop Stats].

Clear Stats

To clear the displayed statistics from the screen, click [Clear stats].

Input

Displays the input supply and battery levels, in volts, for the connected Electronic Controller.

The input **supply** indicates the external charger level.

The input **battery** figure indicates the current internal battery level (BR Series only).

HDX (Half Duplex)

Displays the percentage of good and bad HDX tag reads since statistics display started.

Tuning

This displays the tuning level and setting for the connected Electronic Controller.

The tuning level indicates how well the Antenna Panel is tuned. The higher the number the better.

The tuning setting indicates which of the tune settings is currently used by the Electronic Controller. There are 32 possible settings (0 to 31). If the value is close to either 0 to 31 then there is a risk of not being able to achieve the optimal tune for the Antenna Panel.

FDX (Full Duplex)

Displays the percentage of good and bad FDX tag reads since statistics display started.

Noise level

This display the background noise level. Turn off the Antenna Panel prior to reading this value so you can get a reading of the background noise in the area of the Antenna Panel.

Turn off the Antenna Panel by changing the read mode to *R*equested. *See Oper*ational Settings (p 61).

Reader diagnostic wizard
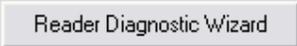
Click [Reader Diagnostic Wizard] and the following screen displays:

For more information on using the Reader diagnostic wizard, *see Advanced EID tag read range tes* (p 30)ting.
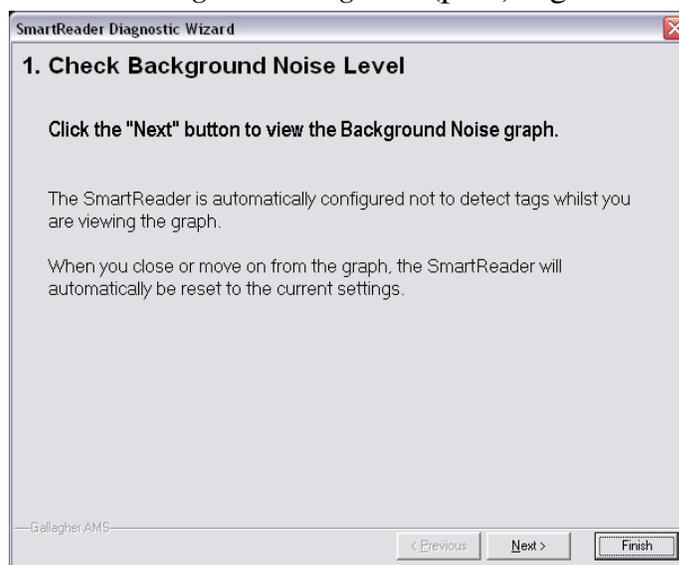
Menu options

Reader menu

Get settings

> See *Reader toolbar* (p 75).

Apply setting

> See *Reader toolbar* (p 75).

Load factory settings

> This option loads the factory default settings into the following screens:
>
> - Operational settings
> - ID Code format
> - Communication settings.
>
> Click **Apply** to transfer setting to Electronic Controller.

Connection menu

Disconnect

> For information on this option, see *Reader toolbar* (p 75).

Settings

> For information on these options, see *Connection toolbar* (p 74).

Search

> For information on this option, see *Reader toolbar* (p 75).

Tools menu

Connection

> This option hides or displays the Connection toolbar.

> See *Connection toolbar* (p 74).

Reader

> This option hides or displays the Reader toolbar.

> See *Reader toolbar* (p 75).

Advanced menu

ID code format

Add Delimiter

This option enables you to add an additional delimiter for use in *the* **Field Limiter** field on the ID Code Format (p 66) screen.
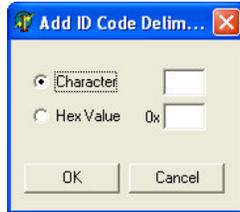
1. Select the required type of delimiter (Character or Hexadecimal) and enter the value.

   Note: The Hexadecimal value must be in hexadecimal format.

2. Click **OK**.

   Note: The entered value is checked for validity.

Toolbars

Connection toolbar

The **Connection** toolbar displays details of the current connection between the computer and the Electronic Controller.

The **Connection** toolbar is hidden or displayed via the *Tools menu* (p 72).

Connection

This option indicates the type of connection between the computer and the Electronic Controller. Options include: RS232 Cable and Bluetooth.

Port

This option indicates the port on the computer to which the Electronic Controller is connected.

Baud Rate

This option indicates connection baud rate of the current connection.

More
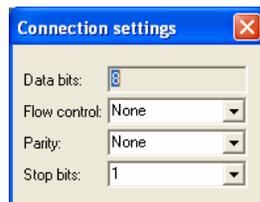
These options mirror the setting on the *Communication Settings* (p 69) screen.

Reader toolbar

The **Reader** toolbar is hidden or displayed via the *Tools menu* (p 72).

Connect button

Click **Connect** to start communication between the computer and the Electronic Controller.

Disconnect button

Click **Disconnect** to stop communication between the computer and the Electronic Controller.

Search button

Click **Search** to ask the computer to search for any connected Electronic Controller. Once an Electronic Controller is found, communication is automatically started.

Get Settings button

Use this option to get the current settings of the currently connected Electronic Controller. The Electronic Controller must be connected to the computer via the serial cable and

This option is also available in the *Reader menu* (p 72).

Apply setting button

Click **Apply** to transfer the displayed settings to the Electronic Controller.

This option is also available in the *Reader menu* (p 72).

Accessories

SmartReader Extension Mounting Kit installation

The Extension Mounting Kit contains:
- 1 x Extension cable (4m)
- 1 x Mounting bracket
- 2 x metal tek screws

Mount the Antenna Panel

Mount the Antenna Panel as per your SmartReader manual.

Mounting the Electronic Controller

Considerations

- The Extension cable is part of the Antenna Panel circuit so keep away from large metal surfaces.
- Ensure the Electronic Controller mounting location provides protection from being knocked or damaged by animals.
- Ensure the Extension cable is run so it can not be damaged or tripped over.
- Protect the Extension cable from damage from the environment, animals, people or weather. Avoid mounting the Extension cable in wet areas.
- **BR Series only** - The Gallagher SmartReader BR Series Electronic Controller needs to be able to be removed to recharge the internal batteries.
- The extension cable length is 4 m.

Procedure

1. Determine the location of the Electronic Controller based on the above considerations.

2. Using the supplied metal tek screws attach the mounting bracket to a solid mounting location using at least two of the holes in the mounting bracket.

    The two sets of two holes allows for installation on horizontal and vertical pipe work.
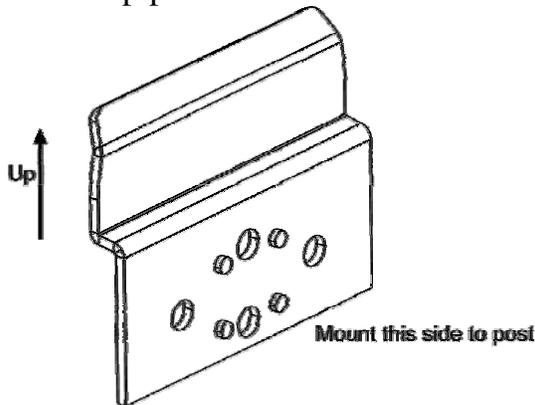
3. Run the Extension cable from the Electronic Controller to the Antenna Panel along the proposed path and temporarily fasten the cable in place.

4. Ensure the Electronic Controller is turned off.

5. On the Antenna Panel, unscrew the Amphenol connector locking nut from the Amphenol socket and pull it down to unplug from the Antenna Panel.
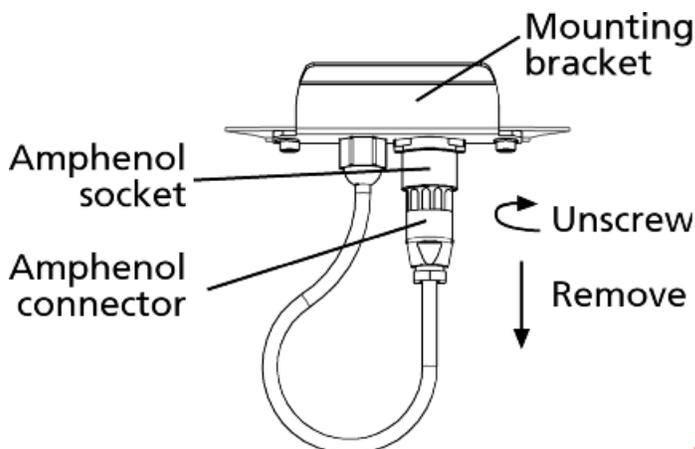
6. Connect the Extension cable to the Amphenol connector and tighten.

7. 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.
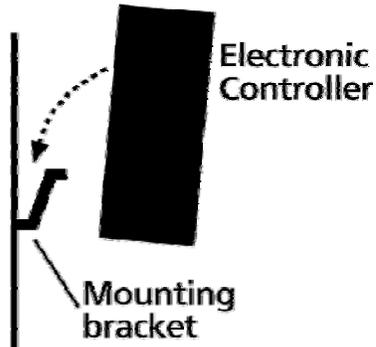
8. Connect the Extension cable to the Amphenol socket on the side of the Electronic Controller and tighten the locking nut.
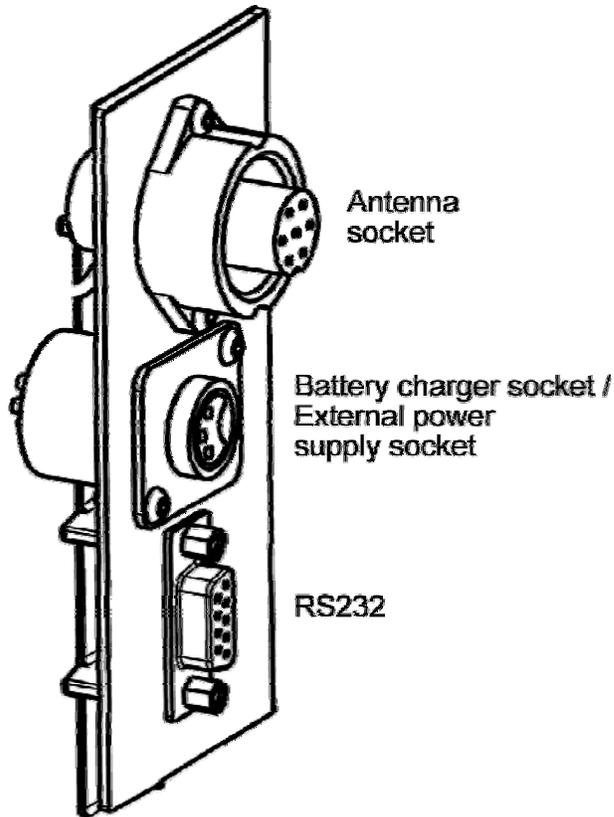
9. Once the Extension cable location is finalised, attach the cable permanently using cable ties.

    The SmartReader is now ready to use.

Specifications

Small Antenna Panels

Small

Small Antenna Panel	3 kg
Dimensions (w x h x d)	400 x 600 x 50 mm