

# AGRI-SPREAD QUICK REFERENCE GUIDE

**“Forward Speed”**  
 This displays the live Forward Speed.  
 The bar graph to the side shows how close the floor speed is to its minimum or maximum RPM. This will move as the floor speed changes.

**“Product/Gate Height”**  
 This displays the current Product Name and the Gate Height. These can both be altered in the setup menu.

**“Return to MAIN Screen”**  
 Press at any time to return from the INFO screen or any other screen, back to the ‘MAIN’ Apollo screen displayed here.  
 Pressing MAIN a second time will display the SPINNER Control channel where Spinner Speed can be set.

**Numeric Keypad**  
 Used to enter a 'Target Rate' while on MAIN page. If the Target Rate displayed is incorrect, just type in a new one, finishing with the Enter key.  
 Use also for keying in a value within Setup Menu.

**“Application Rate”**  
 This displays the live Application Rate.  
 The Target Application Rate is shown in the black box to the right. This can be altered using the keypad.

**“ENTER” Button**  
 When you have typed in a new Target Rate on the MAIN page, press this button to enter it.

**“Power On / Off” Button**  
 Turns the Apollo on and off.

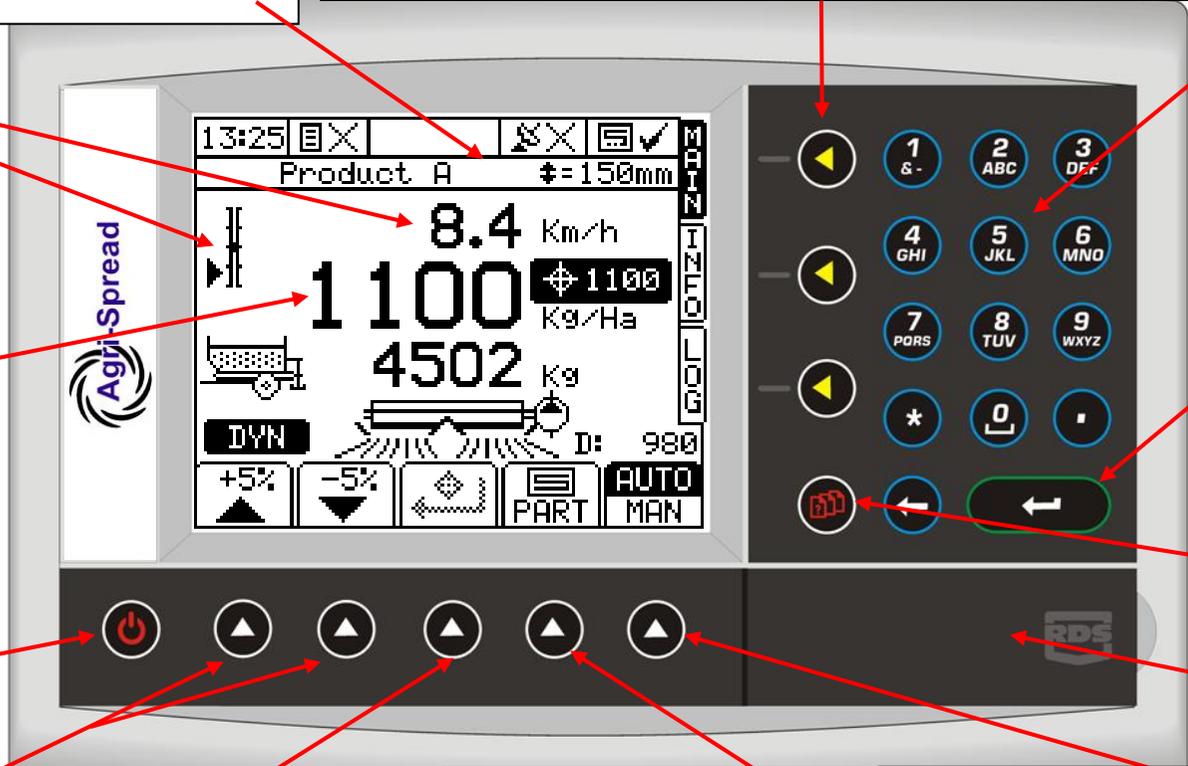
**“Setup” Button**  
 Used to enter the Setup/Configuration Menu

**“Target Rate Nudge”**  
 These buttons adjust the application rate by a percentage. This nudge value can be changed in the setup menu – 5%, 10% etc

**“Return to Target”**  
 This button returns the application rate to the original target if it has been adjusted using the nudge buttons.

**“Area/Weight Display”**  
 This button switches between displaying the Live Hopper Weight or the current Area spread.

**“Automatic or Manual Control”**  
 When in AUTO, the system will automatically adjust the floor speed to match the target application rate.  
 When in MAN, operator can manually adjust the floor speed (has no relation to forward speed or weight).



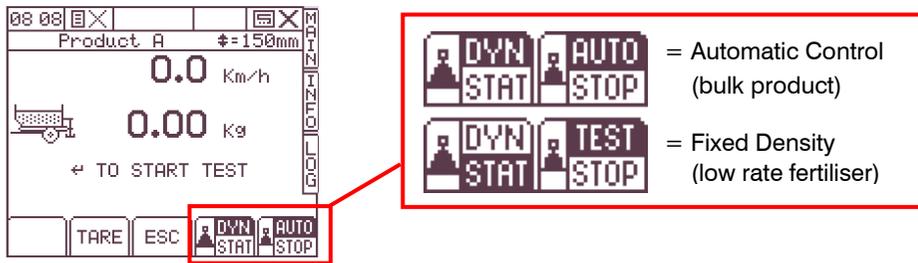
## DYNAMIC & STATIC MODES

The Apollo is designed to allow automatic corrections for product density and variable rate control of the spreader from the weigh cells. This automatic mode is called DYNAMIC and will adjust the density to apply the correct rate, the system can be set to STATIC and will hold a constant density.

### DYNAMIC

Dynamic has been designed to be used with bulk product and when applying rates of 500kg/ha and upwards. The system will monitor the load cells and make corrections to the density while spreading in order to stay accurate to the application rate.

The settings can be accessed by pressing the INFO page and then selecting the Weight symbol.



Pressing the DYN and STAT button will switch between the two settings.

### STATIC

For accuracy at low application rates, it is advised to use STATIC mode and to carry out a calibration test and weigh the product before starting to spread. This is due to low application rates being affected by field conditions and the possibility of a poor dynamic test and ultimately poor accuracy.

If low rates are being applied, then it is advised to follow the 'Flow Factor' calibration test on the following page for that specific product. That calibration can then be saved to that product for use again in the future.

If after a certain period, say 10 hectares, the application is still slightly out then a 'nudge' can be carried out which will adjust the flow factor and as such the application rate in order to meet the correct target.

## 'FLOW FACTOR' CALIBRATION TEST

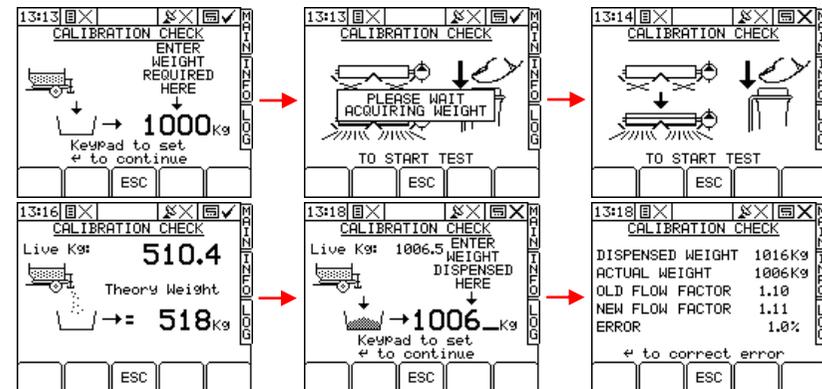
In order to achieve accuracy across a complete product range, each product should be tested to enable the system to learn the flow characteristics of that material. This involves running the floor for a set time period, catching and then weighing the product that is dispensed from the spreader.

From the menu, select the SPREADER SETUP button and choose CALIBRATION ROUTINE. After setting up the spreader, select CHECK CALIBRATION.



It is advised if catching the product to be weighed, to select enough product for a minimum of 5Ha depending upon target rate. The system will run the belt for that much product and can then be calibrated once this has been weighed.

**\*NOTE: The greater the volume of product dispensed for calibration, the greater the accuracy.**



If metering out a smaller weight that can be lifted by scales, then enter the weight that has been measured on to the weight entry page. For smaller weights, such as 40kg, it is advised not to use the live load cell weight for this calibration. If dispensing a large volume of product (1000kg) back in to a bulk store, then enter the LIVE KG that is shown from the load cells.

**\*NOTE: To check Application Rate accuracy, dispense the TOTAL amount of product that is shown in hopper.**