

## 5.0 Mode 1b, Bias menu.

The bias function is used if the moisture reading needs to be adjusted in line with the reference method. The bias should only be used if the readings are too high or too low by a constant amount over a varying moisture range. Please contact Sinar if in doubt.

The bias menu enables you to independently enter a bias or offset to each selected crop calibration.

<b>Bias Menu</b>	<b>1b</b>
<b>Bias</b>	<b>Exit</b>



By pressing **Bias (F1)** the display changes to:-

<b>1 Seeds</b>	<b>0.0%</b>	
<b>Down</b>	<b>Up</b>	<b>Exit</b>



The display shows that calibration number 1, Seeds has been selected for adjustment. This calibration selection is made in Mode 0. See Section 2, Selecting a calibration. All bias values will be factory set to zero on shipment.

By pressing the F1 or F2 keys the required + or – bias value will be displayed. A positive value will increase the displayed moisture value, a negative value will reduce it. Each press of the key increases or decreases the value by 0.1% moisture.

When the correct bias value is displayed, press the **Exit (F4)** key to save and return to Mode 1b.

Your bias value for the selected crop has now been stored and will be applied to all future readings.

## Error Code Summary

<u>Error Code</u>	<u>Explanation</u>	<u>Recommended action</u>
Err.0	Sample weight too low	Use larger sample (greater than 115g)
Err.1	Measurement cell not correctly mounted	Remount the sample cell firmly on to the interface
Err.2	Capacitance reading is too high (over 100)	See separate hardware check leaflet.
Err.3	Capacitance reading is too high at low moisture	See separate hardware check leaflet.
Err.4	High moisture reading at low capacitance reading	See separate hardware check leaflet.
Err.5	Capacitance reading is too low for calibration curve (i.e. %MC would be negative)	See separate hardware check leaflet.
Err.6	Communication error in RS232	Check cable and start again
batt	Battery low indicator	Replace the batteries



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## MODEL SINAR 6070

### Getting started



To register your new instrument and download the full manual please visit:  
[www.sinar.co.uk/service-centre](http://www.sinar.co.uk/service-centre)

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## Included with your new SINAR 6070 -

- This short Form User Guide
- SINAR 6070 main body
- SINAR 6070 measurement cell
- Carry case
- Calibration check sample and instructions
- Loading hopper
- Beaker
- Levelling blade
- COMS Cables (dependent on model)

We strongly recommend the following -

- 1) On delivery, use the check sample provided to confirm the instrument is working to specification.
- 2) Use all of the accessories provided to achieve maximum accuracy from your machine.

## Using your Sinar 6070 Analyser.

### 1.0 System Power Up.

#### First use.

Press the "I" key. The Instrument powers up in mode 0 showing "0 Reference" in the display. Use the "Up" (F2) key to step through the crop calibrations.

#### Subsequent Use

The Instrument remembers the last selected crop calibration. On power up, the Instrument returns to the last selected calibration.

Check the correct crop is selected before carrying out a test.

0 Reference	0
Down Up	Run

Mode 0 screen.

**Warning – Do not rotate the measuring cell while placing on or removing from the machine.**

### 2.0 Selecting a Crop Calibration (Mode 0, F1 & F2).

Using the **Down (F1)** or **Up (F2)** key, step through the crop calibrations until the required calibration is displayed.

1 Seeds	0
Down Up	Run



Mode 0 screen.

The display shows the Seeds calibration has been selected, and its curve number is 1.

### 3.0 Loading the sample.

#### Method:

Over fill the beaker with sample.

Using the stainless steel levelling blade provided level off the sample.



Place the closed loading hopper on the 3 support posts around the measurement cell. Pour the sample from the beaker into the loading hopper.



Steady the hopper with one hand and give an upwards tap to the slider with the other. The slider will snap open dropping the sample into the measurement cell.

Remove the hopper from the machine.

### 4.0 Taking a measurement. (Mode 0, F4).

With the sample loaded press and release the (F4) Run key.

1 Seeds	0
Down Up	Run



Mode 0 screen.

The display will change showing the selected crop on the top line and **Testing.....** on the bottom.

1 Seeds	0
Testing.....	



After approx 3 seconds the results are displayed.

1	H2O	g/l	degC	0
	10.2	760	21.4	Run



**Note - Displayed units are dependent on model.**

To continue testing with the same crop remove the measurement cell, empty and replace. Refill the measurement cell with sample, see Section 3. Press and release the **Run (F4)** key.

**For more details visit:**  
[www.youtube.com/SinarTechnology](http://www.youtube.com/SinarTechnology)