



## *Graintec Scientific*

### *HE-LITE Moisture Meter – “Frequently Asked Questions”*

#### **How accurate is the instrument?**

Unlike many other moisture meters, the HE-LITE grinds the presented sample so that the moisture is measured through the grain – not just the outside coating of the grain. This provides for a much more accurate reading. Many moisture meters on the market do not grind the sample.

Correct sampling methods are very important in achieving accuracy. The representative sample must be clean and sound. All foreign material, seeds, chaff etc must be removed.

We can provide sampling guidelines – contact us for further detail.

#### **What products will it measure?**

The HE-LITE is calibrated with 8 products as follows;

- Wheat
- Sorghum
- Barley
- Canola
- Corn
- Soya Bean
- Sunflower
- Peas

#### **Does the meter require annual service and calibration?**

Yes. To ensure the accuracy and correct operation of the meter, we strongly recommend that the unit is serviced on an annual basis.

We can service the unit for you in Toowoomba and recommend this is done prior to harvest.

## What is the difference between the HE-50 and the HE-LITE moisture meters?

<i>Price:</i>	The HE-50 is a little more expensive than the HE-LITE
<i>Size:</i>	The HE-LITE is more compact and is easy to carry around
<i>Products:</i>	<p>The HE-50 can measure cereal grains, corn, oilseeds, grass seeds, vegetable seeds, flower seeds.</p> <p>The HE-LITE can measure cereal grains, corn and oil seeds only. Is best suited to cereal grains.</p> <p>The HE-50 has been proven to be more efficient at measuring beans, corn, peas etc – this is due to the larger measuring cell.</p>
<i>Calibrations:</i>	The HE-50 has 14 pre-set calibrations. The HE-LITE has 8 pre-set calibrations.
<i>Temperature Probe:</i>	The HE-50 has the option of attaching a temperature probe. The HE-LITE does not have this option.

## Can temperature of the grain affect the reading?

The temperature correction is executed automatically. Reliable results are obtained at ambient temperatures between 10 deg c and 30 deg c. For best results the instrument and the sample to be tested have nearly the same temperature.

Warm cereal grains taken from bunker/silo storage (particularly in a hot climate) etc should be measured after cooling down. Cold grain should be allowed to warm up to ambient temperature.

## Is the meter easy to handle – can I take it out on the farm?

Yes. The meter can be easily transported around on-farm. The supplied carry case makes this easy to do.

The weight of the instrument on its own is 0.9kg.

## How does it work?

Place an 11 ml sample in the bottom section of the measurement cell.

Screw the top section of the measurement cell into place.

Turn on the unit, select the product calibration and press the measurement button.

The HE-LITE completes the measurement in seconds, automatically corrects the temperature and displays the measurement result.

**How long does it take to measure?**

Less than 10 seconds after when the measurement button is pressed.

**How much sample do I need?**

The HE-LITE features a measuring cup in-built in the top section (handle). The measuring space is 11ml. Fill the sample cup to the top and then pour the sample evenly into the measurement cell.

**How clean does the sample need to be?**

Each product calibration has been established using clean, sound sample material. Foreign elements such as stones, straw, husks, weed seeds, green kernels or in the case of corn, stalks should be removed from the sample. Failure to remove such foreign materials may cause an error rate up to 2% moisture.

**What power does the HE-LITE use?**

The HE-LITE is powered by 3 x 1.5V batteries (AA size).

**Is the unit easy to clean?**

Yes. After each measurement, simply discard the sample and brush out any remaining sample particles/residue in the measurement cell.