

## PROTIMETER *Grainmaster i-S*

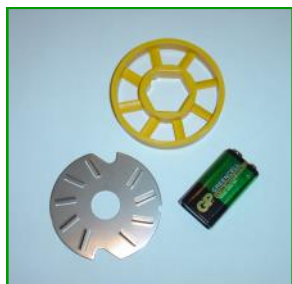
Professional crop moisture measurement



Protimeter Grainmaster i-S



Supplied in a hard carry case



Supplied with spares kit and free service voucher\*



**Specifications of Protimeter Grainmaster i-S**  
Accuracy: +/- 0.5%; Moisture range: crop dependent  
Operating range: 0 - 40°C; Weight (c/w grinder-compressor): 1kg  
Dimensions (c/w Grinder-Compressor): 195 x 185 x 100 mm  
Power: 1 x PP3 9V battery (included plus spare)  
Product Code: GRN3000S

### *The moisture meter with the complete service package*

- \* **15 pre-programmed crop calibrations**  
(Wheat, Barley, Oats, Oil Seed Rape, Canola, Linseed, Peas, Beans, Maize, Sunflower Seed, Coffee Beans, Soya Beans, Milled Rice, Paddy Rice and Sorghum)
- \* **30 more calibrations are available; users can also create their own calibration using a built-in 0-100 scale**
- \* **Users can alter calibrations to match other instruments**
- \* **Automatic temperature compensation**
- \* **Integrated fully serviceable grinder-compressor unit**
- \* **Supplied in a hard carry case to protect the meter**
- \* **Fitted with operating button dust protector**
- \* **Supplied with spare grinder blade and feeder ring**
- \* **Includes free first year service voucher\***
- \* **Available with a range of optional probes (see over)**

*Accurate grain moisture measurement is probably the most critical action at harvest time and throughout the drying and storage period. Avoiding over-drying and minimising deductions are key aims for most meter users. So it makes sense to use a meter that has a track record for providing consistent, accurate and reliable grain moisture readings.*

*The Protimeter Grainmaster i-S is the UK's most popular on-farm portable moisture meter, and for good reason. Using tried and tested crop calibrations, its robust electronics give a high level of repeatability between samples. As a grinding moisture meter you can also be confident that readings will record moisture accurately throughout the grain sample.*

*Best results with the Grainmaster i-S are achieved by cleaning and servicing the instrument regularly and by using it in stable, constant conditions without large temperature fluctuations. It is also important to follow the practical advice on grain sampling and measurement given in sources such as the HGCA's free booklet 'Grain moisture - guidelines for measurement' (see [www.hgca.com](http://www.hgca.com)).*

*To help keep the Protimeter Grainmaster i-S in tip-top working condition, it is supplied in a hard carry case with a button dust protector, spare grinder-blade set and free first year service voucher\* - a package of benefits only available from Martin Lishman.*

\* conditions apply

# Professional Crop Moisture Measurement

## PROTIMETER *Grainmaster i-S* Optional Sensing Probes



*In-heap measurement with the Protimeter*

**Moisture and Temperature Probe** - A 1.5m probe for use with the *Grainmaster i-S* to check quickly the moisture and temperature levels of grain in the store. Not suitable for making selling decisions but extremely valuable for checking drying progress, multiple intake measurements and quality assurance checks. Nine calibrations for the probe are pre-programmed into the *Grainmaster i-S*: Wheat, Canola, Oil Seed Rape, Barley, Oats, Linseed, Beans, Peas and a 0-100 scale for the user's own calibrations. *Product Code: GRN3005*

**Temperature Probe** - A 1.5m stainless steel probe for checking the temperature of stored grain. Ideal for quality assurance checks and basic cooling fan management. Versions are still available for some older Protimeter models (please specify when ordering). *Product Code: GRN6046*



*Grain temperature measurement with the Protimeter 1.5m temperature probe*

**Bale Moisture Probe** - A 600mm probe for checking the moisture level of bales of hay and straw. *Product Code: GRN6138*

**Woodchip Moisture** - A 600mm probe and Timbermaster meter to check the moisture level of woodchips. *Product Code: GRN6156*



*Bale moisture measurement with the Grainmaster i-S 600mm bale probe*



*Woodchip measurement - Timbermaster with 600mm moisture probe*

## PROTIMETER *Balemaster*



Displays straw and hay bale moisture instantly • 600mm long probe reaches the centre of big bales  
Used to decide if bales are in a safe condition to store • Optional bale temperature probe available  
Calibrated for wheat straw; with relative measurement of other baled products

### Specifications of Protimeter *Balemaster*

Measurement range: 9% - 40% (guidance only above 30%); Meter Dimensions: 160 x 65 x 20 mm; Weight: 230g  
Probe: 600mm long x 10mm diameter; Power: 2 x 1.5V AA battery (included); **Product Code: GRN6150**

# Moisture Meters for Field Use



Field Check is ideal for checking trailers before loading into store

## Field Check and Field Check<sup>PLUS</sup>

**Budget priced moisture meters ideal for use with the combine or drier**

- Quick and simple to use
- Whole grain or ground grain options
- Consistent repeat readings
- Automatic averaging function
- User re-calibration to match other meters
- Automatic temperature compensation
- 14/15 pre-programmed crop calibrations:  
Wheat, Barley, Oats, Rye, Maize, Oil Seed Rape, Peas, Beans, Triticale, Red fescue, Rye grass, Linseed, Sunflower, Mustard, Blue grass (Field Check<sup>PLUS</sup> only)



**Field Check** is a whole grain meter with a simple scoop action that makes it very easy to take a sample. Using the built-in pressure indicator, every sample is compressed to the same degree and results are displayed within seconds.



**Field Check<sup>PLUS</sup>** is a ground grain meter with two different sample measuring cups built in to the upper part of the grinding mechanism. The display automatically indicates which sample size to take according to the crop selected. After grinding the sample by an automatically fixed amount the grain moisture reading is quickly displayed.

**Field Check** and **Field Check<sup>PLUS</sup>** are two new meters designed with practicality and economy in mind. Both are highly portable, robust meters ideal for use when harvesting, for checking trailers before loading into store or for checking the progress of drying. The repeatability of readings is impressive and it is very simple to adjust calibrations to match the main meter on the farm or the meter being used by the buyer of the grain. By using the built-in averaging facility and calibration adjustments as required, repeat readings provide an accuracy level of +/- 0.5% or better.



Field Check and Field Check<sup>PLUS</sup> are supplied in a shockproof carry case for easy portability

**Specifications of Field Check & Field Check<sup>PLUS</sup>**  
Accuracy: +/- 0.5% by using averaging and self-calibration  
Moisture range: 5-50% (crop dependent)  
Operating range: 0 - 50°C  
Weight: Field Check 1.6 kg, Field Check<sup>PLUS</sup> 1.8 kg  
Dimensions: Meter 130 x 210 x 80 mm; Case 320 x 290 x 120 mm  
Power: 1 x PP3 9V battery (included)  
Product Code: CQ/FIELD or CQ/FIELDPLUS

# Martin Lishman Moisture Meters

# Moisture Meter Service & Calibration

## Does your Moisture Meter need a service?

Let Martin Lishman take care of it. We are the official Protimeter sales and service agent for the UK. Our service centre is fully equipped to carry out moisture meter servicing and calibration to conform with quality assurance schemes. We can also service, repair and restore many of the older models of Protimeter and others such as Marconi and Sinar.

*Most service work is covered by our basic charge which includes return carriage (conditions apply).*



We service a wide range of meters - both old and new



Minor repairs are undertaken, grinder compressors are pressure checked and each meter is returned with a calibration certificate suitable for quality assurance checks

### For a simple calibration check - why not attend one of our moisture meter clinics?

We hold moisture meter clinics at the premises of machinery dealers and others, up and down the country at various times during the first half of each year.

It is a chance for you to bring your meter and check it against known test samples. Our service staff are on hand to advise on alterations or repairs that may be required to bring the meter up to standard.

If the meter is correctly calibrated we issue a certificate that can be used to satisfy quality assurance inspections.

Sample	Reference	Meter
Wheat	12.2%	
Barley	14.8%	
OSR	8.8%	
Temp probe	15.2% °C	
Moisture probe		

For details of clinic dates, see our website [www.martinlishman.com](http://www.martinlishman.com).

### Moisture Meter Service Workshop Procedure

We carry out service procedures ranging from calibration checks to complete machine re-builds. We always provide a quote to the customer before performing any major repair tasks and we don't usually recommend work on instruments that are beyond economic repair. A typical service procedure includes the following:

- Instrument dismantled and cleaned.
- Minor maintenance tasks, eg. oil grinder unit, re-solder wires.
- Replace worn or broken parts with owner's consent.
- Moisture meter grinder/compressor unit pressure checked.
- Instrument checked for accuracy, using reference samples.
- Service certificate completed and instrument returned.

During this process all meters are calibrated using known test samples from a centralised ring system. We service most makes of moisture meter, including obsolete and older models of existing brands. If we cannot do anything to improve the performance of your meter we do not make a service charge just for looking at it.

### Marconi Moisture Meters



Treasured like an old friend, Marconi moisture meters are still in use on many farms. They have not been manufactured for many years now, and spare parts are unobtainable.



We can supply batteries for Marconi meters

However, up to a point, we can service them and calibrate them. We also make up and supply the two specific battery packs that these meters require.

Martin Lishman Ltd is the sole UK distributor and service agent of Protimeter products for agriculture. Protimeter, Grainmaster and Balemaster are trade marks of Amphenol Advanced Sensors. Field Check and Field Check<sup>PLUS</sup> are trade marks of Martin Lishman Ltd. Martin Lishman Ltd reserves the right to alter product specifications at any time without notice. © Martin Lishman Ltd April 2015

Martin Lishman Ltd, Unit 2B, Roman Bank, Bourne, Lincs, PE10 9LQ, UK  
Tel: +44 (0)1778 426600 Fax: +44 (0)1778 426555  
E-mail: [sales@martinlishman.com](mailto:sales@martinlishman.com) Website: [www.martinlishman.com](http://www.martinlishman.com)  
@Martin\_Lishman

Your Moisture Meter Supplier: