RR moisture
Seed Moisture Content

Water Activity

Seed moisture is a very important factor for seed quality. On one hand water is needed for a seed to germinate and to ensure that the germ can develop successfully into a plant. But on the other hand water does play a very negative effect on seed quality during processing and storage.

Measuring seed moisture content has always been a difficult job most available system are, or time consuming such as the oven method, imprecise such as measuring conductivity or costly such as the NIR method. Therefore we do propose an alternative way for measuring seed moisture content through the measurement of water activity.

An incorporated software package is translating this water activity into your classical seed moisture content (using standard or adapted oil content percentages).

Option

- Water activity probes: Measurement range 0-1 (0-100%RH), -45 to 85 °C
- Sample holder 14 mm: These stainless steel sample holders were developed specifically for the water activity probes. The sample holder provides excellent sample containment and optimum temperature stability.
- Sample containers: Pack of 100 sample containers for a 14 mm sample holder.
- Clamp sealing mechanism: In the case of very moist or very dry samples additional sealing of the probe and holder maybe necessary to prevent condition influencing the sample.

Features and Benefits

- Water activity is a non-destructive method and therefore particularly useful for small sample of seed with high commercial (e.g. hybrid seed) or genetic value.
- Water activity can be used for coated, encrusted and pelleted seeds.
- Water activity provides information on the water status in the seed – there is a direct relationship between water activity and seed longevity.
- Water activity can be used to determine the moisture in the seed for short and long term storage.

Specification

Item	Specification
1. HC2-AW-USB (Measurement probe)	
• Measurement range	0-1 aW (0-100%Rh), -40-85 °C
• Accuracy at 23 °C ± 5 K	± 0.008 aW/0.8%RH/± 0.1 K
• Power Supply	Via USB interface
• Connection	Via USB to PC, 3 m cable
• Software	HW4-P-Quick-V3
• Weight	550 g
2. Sample Holders WP-14-S/40/40 TH	
• Type	- WP14-S for small samples and for calibration - WP-40 and WP-40TH for lager samples (insert included for small samples) All products provide excellent sample containment and optimum temperature stability
• High	- 14 mm (WP-14-S) - 40 mm (WP-40 and WP-40TH)
• Weight	- 350 g (WP-14-S) - 1250 g (WP-40) - 1550 g (WP-40TH)
• Material	- V2A steel (WP-14-S and WP-40) - Brass, Nickel-plated
• USB with	- PS 14 (WP-14-S, WP-40 and WP-40TH) - PS 40 (WP-40 and WP-40TH)
3. Disposable Sample Container PS-14/PS-40	
• Type	- PS-14 (small size) - PS-40 (large size)
• High	- 14 mm (PS-14) - 40 mm (PS-40)
• Material	Plastic
• USB with	- WP-14-S, WP-40 and WP-40TH (PS-14) - WP-40 and WP-40TH (PS-40)
• Unit	5 pc.

RR Moisture Set

RRCAW-ST	Set
RRCAW	Probe
RRCAW	Sample holder 14
RRCAW-SC	Sample containers 14
RRCAW-SW	Software package

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For further questions, please do not hesitate to contact us

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