

FOG II[®]

Digital Soil Calcimeter



The ideal portable tool
for agriculture scientists and farmers
to measure soil carbonate content
in the field

FOGII®

Digital Soil Calcimeter

The **FOGII** Digital Soil Calcimeter with automatic temperature compensation offers dramatically improved levels of performance, productivity, reliability, ease of use and flexibility.

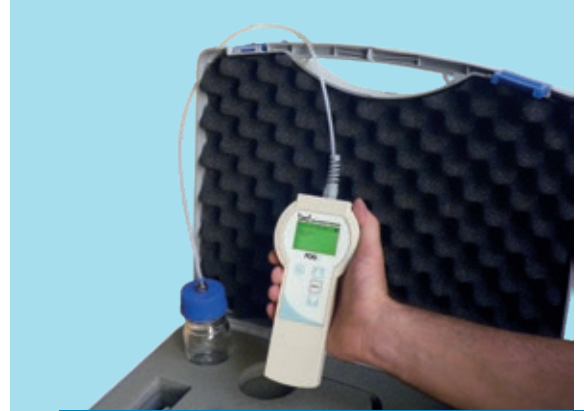
Testing soil every two years and applying frequent small amounts of lime can help farmers avoid top soil acidification. Calcium carbonate is an important parameter for Soil Science and Precision Agriculture (PA) or Site Specific Crop Management (SSCM).

Advantages

- Digital technology
- Portable, water resistant and easy to use
- Low cost
- Accurate & precise measurements
- Fully automatic operation
- Rapid and reliable results
- Highly productive

Specifications

Units	% CaCO ₃ (CCE)	
Working Range	0 - 100% (CCE)	
Accuracy/Resolution	0.5% / 0.1% (CCE)	
Linearity (r ²):	0.999	
Temperature	Automatic compensation with built-in temperature sensor 5-50°C	
Reaction Vessel	Glass bottle	
Sample Volume	0.5 - 5.0g	
Sample Analysis Time	Approx. 30 sec	
Device	Dimensions (L×W×H)	200×94×39mm
	Weight	350g
	Material	Case ABS (UL 94 HB), Colour off-white RAL 9002, water resistant (IP65)
	Membrane	Polyester (PET)
	Display	Resin coated (scratch proof)
	CE Mark	EU directive Standards / RoHS compliant
User Interface	LCD Display with backlight	
	Power Supply: 3×AA alkaline or rechargeable batteries	
	Internal memory (last 50 measurements)	
UMP-2 sensor (only on FOGII+)	Water content range	0 - 100% Vol.
	Water content accuracy	±2%
	EC range	0.001-5 mS/cm
	EC accuracy	±1%v
	Soil temperature range	-20 to +60°C
	Soil temperature accuracy	±0.2°C (across the entire temperature range)



Soil total carbonate salts (CaCO₃, MgCO₃, etc.), is of great interest on account of its high usefulness for diagnosing soil status in terms of nutrient contents, structure, texture or biological activity. These salts are measured to determine soil buffering capacity with relation to soil fertility, chemical and pedogenic processes.

The **Digital Soil Calcimeter™ with UMP-2** provides the measurement of soil carbonate content in the field with automatic compensation of soil moisture. It has a rugged design and is easy to use so that it is suitable for field campaigns.

Wide range of applications and market sectors

Soils scientists • Ecologists • Agronomists and farm consultants • Farmers • Gardeners • Golf greens and sports pitches • Potters

Standards

Complies with EN ISO 10693, ASTM D4373-02 and Soil Science Society of America standard test methods for calcium carbonate content in soils and sediments.

Ordering Information

FOGII Basic	Includes: <ul style="list-style-type: none">• Bottle• Cuvette cap HC-170• Verification sample CaCO₃• Operating instructions
FOGII Field Kit	As Basic with: <ul style="list-style-type: none">• Hard Case (L200×W94×H39mm)• Pocket Balance 0.01g
FOGII Plus	As Field Kit with: <ul style="list-style-type: none">• UMP-2 modified soil moisture probe with 1m cable
BT-100	Replacement bottle
HC-170	Cuvette cap complete
GPS module	GPS receiver for field measurements (factory installed)
UMP-2 mod	UMP-2 soil moisture probe 1m cable modified (factory installed)
CRV-DOL	Continuation Reaction Valve



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