



DRIVE INNOVATION & CREATIVE PURSUIT OF SUPERIOR PERFORMANCE

BD Inventions is a newly founded company which targets on Research, Development, and Manufacture of the latest **FOG II** Digital Soil Calcimeter. Our driving goal is to provide products that meet and exceed customer's requirements. By working in close collaboration with our customers, we can ensure that we provide not only a technologically advanced product, but also a value chain through the whole process. Premium products along with excellent technical support help our customers to achieve their goals.

New Technology. Rapidly to Market.

BD Inventions philosophy is to provide the very latest and innovative technologies that are required by our customers so as to improve their efficiency.



FOG II[®] DIGITAL SOIL CALCIMETER

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

The **FOG II** Digital Soil Calcimeter is the ideal tool for agriculture scientists and farmers. Testing soil every two years and applying frequent small amounts of lime can help farmers avoid top soil acidification.

FOG II is patented from Hellenic Industrial Property Organisation (OBI) patent No 1008089 and PCT application number PCT/GR2013/000048 & Publication number WO2014060782 A1



Why is Calcium (Ca) important?

- **Soil:** Calcium opens up (floculates) the soil, improving structure and allowing roots, earthworms, oxygen, water and microbes to move freely through the soil.
- **Plants:** Calcium is often referred to as the "trucker of all minerals" in relation to its role in mobilizing other nutrients.
- **Plant Deficiency Symptoms:** Stunted root systems and a lack of vegetable vigour. Blossom end rot in tomatoes, capsicums and zucchini. Internal browning or blackening of celery, potatoes and Brussels sprouts. Deformation and Necrosis of young leaves.



Soil total carbonate salts (CaCO_3 , MgCO_3 , 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 determination of total carbonates is expressed as percentage of CaCO_3 and is based on the volumetric analysis of the carbon dioxide released upon addition of HCl to soil carbonates.

Wide range of applications and market sectors

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

Specifications

User Interface	Keyboard membrane, back-lighted LCD
Power Supply	3×AA alkaline or rechargeable batteries
Units	% CaCO_3
Working Range	0-100% CaCO_3
Accuracy	0.5% CaCO_3
Resolution	0.1%
Linearity (r^2)	0.999
Temperature	Automatic compensation with built-in temperature sensor 5-50°C
Reaction Vessel	Glass bottle
Sample Volume	0.5-5g.
Sample Analysis Time	Approx. 30 sec.
Memory	The last 50 measurements can be stored internally
Protection	IP65
Dimensions (L×W×H)	200×94×39mm
Weight	350g
Material	Case: ABS (UL 94 HB) • Membrane keyboard: Polyester (PET) • Display: Resin coated (scratch resistant)
CE Mark	Complies with the EU directive

Ordering Details

FOGII Basic	FOGII Calcimeter including cuvettes, bottle, tubing, batteries & operating instructions
FOGII FieldKit	FOGII Calcimeter and accessories as with Basic version, also with balance 0.01g, calibration CaCO_3 std, hard plastic carry case complete for field analysis

Accessories

GPS module	GPS receiver for field measurements (factory installed)
------------	---

Spare Parts

BT-100	Replacement bottle
HC-150	Head cup complete



BD INVENTIONS P.C. • Prototypes Research Development

Giannitson 31, Balkan Center • GR-546 27 Thessaloniki, Greece • www.bdinventions.com

©2014 BD INVENTIONS P.C. All rights reserved. Specifications, terms and pricing are subject to change. Not all products are available in all countries. Please consult your local sales representative for details.

Calcium Benefits

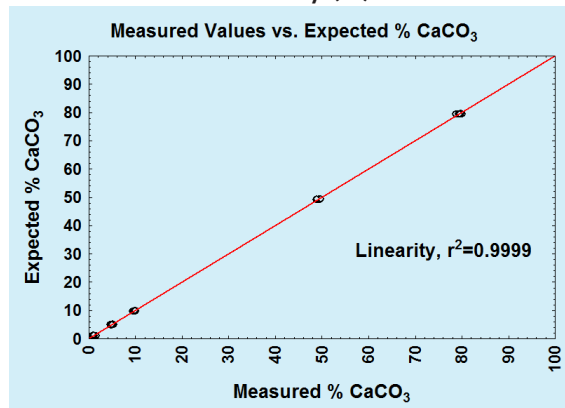
- Good soil structure associated with correct calcium levels.
- Avoid soil crusting. Soils are harder to damage and recover sooner after poaching or compaction when exposed to traffic by machinery or animals in wet conditions.
- Calcium neutralizes soil acidity.
- Calcium plays a critical role in improving soil structure and quality.
- Reduces soil salinity and phosphorous loss.
- Improves water percolation.
- Increases root development.
- Only N and K are required in larger amounts by plants.
- High potassium levels reduce the uptake of Ca.

FOGII® Calcimeter Advantages:

- digital
- portable
- low cost
- accurate, precise
- automatic
- rapid and reliable results
- productive
- ease of use



Linearity (r^2)



Contact Us

If you need further information about our products and services, contact us at sales@bdinventions.com or contact your local distributor