



## FOGII+ DIGITAL SOIL CALCIMETER

with soil moisture compensation



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

The FOGII 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 topsoil acidification.

FOGII is patented from Hellenic Industrial Property Organization (OBI) patent No 1008089 and PCT application no. PCT/GR2013/000048 & Publication no. 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.



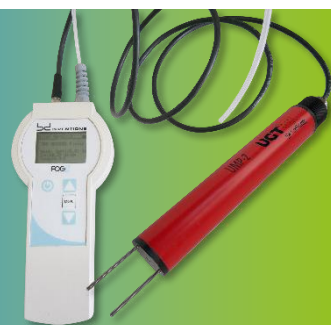
Soil total carbonate salts (CaCO<sub>3</sub>, MgCO<sub>3</sub>, etc.), is of great interest on account of its high usefulness for diagnosing soil status in terms of nutrient contents,

structure, texture or biological activity. These salts are measured to determine.

soil buffering capacity with relation to soil fertility, chemical and pedo- genic processes. The determination of total carbonates is expressed as percentage of CaCO<sub>3</sub> and is based on the volumetric analysis of the carbon dioxide released upon addition of HCl to soil carbonates.

### ADVANTAGES:

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



### Wide range of applications & market sectors:

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

FOGII DIGITAL CALCIMETER SPECIFICATIONS	
User Interface	Keyboard membrane, back-lighted LCD
Power Supply	3x AA alkaline or rechargeable batteries
Units %	CaCO <sub>3</sub>
Working Range	0 - 100% CaCO <sub>3</sub>
Accuracy	0.5% CaCO <sub>3</sub>
Resolution	Resolution 0.1%
Linearity (r <sub>2</sub> )	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	200×94×39mm (L×W×H)
Weight	350g
Material	Case: ABS (UL 94 HB) Membrane keyboard: Polyester (PET) Display: Resin coated (scratch resistant)
CE Mark	Complies with the EU directive

### UMP-2 SOIL MOISTURE PROBE SPECIFICATIONS

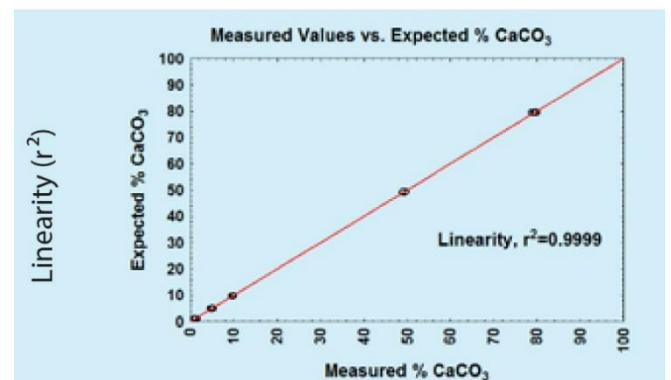
Water content measurement range	0-100 % Vol. water content
accuracy	± 2%
Electrical conductivity measurement range	0,001-5 mS/cm
accuracy	± 1%
Soil temperature measurement range	-20 - +60 °C
accuracy	±0.2°C (across the entire temperature range)

### ORDERING DETAILS

Instru-ment	FOGII+	FOGII Calcimeter and access. as with Field-Kit version, also with UMP-2 modified soil moisture probe with 1m cable
Acces-sories	UMP-2	UMP-2 soil moisture probe 1m cable-modified (factory installed)
	GPS module	GPS receiver for field measurements (factory installed)
	CRV-DOL	Continuation reaction valve
Spare parts	BT-100	Replacement bottle
	HC-150	Head cup complete

## 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 & K are required in larger amounts by plants.
- High potassium levels reduce the uptake of Ca.



If you need further information about our products and services, contact us at:  
[info@ugt-online.de](mailto:info@ugt-online.de)