## new SoloFlux

FLOW

Automated Digital Permeameter









### WATER MOVEMENT IN THE SOIL

Hydraulic conductivity is a variable associated with the ease with which water moves, expressing the soil's physical structural quality. The movement of water in the soil is directly influenced by macroporosity, varying according to the volume, size, continuity, tortuosity and interconnection of the soil's porous system.

#### **HYDRAULIC CONDUCTIVITY X COMPACTION**

Hydraulic conductivity is inversely proportional to penetration resistance. Soil compaction rearranges the particles, increasing density as a result of the reduction in soil volume and the expulsion of air from the pores.

Soil compaction reduces the volume of macropores. With this reduction, the soil's microporosity increases, leading to greater water storage in the soil.

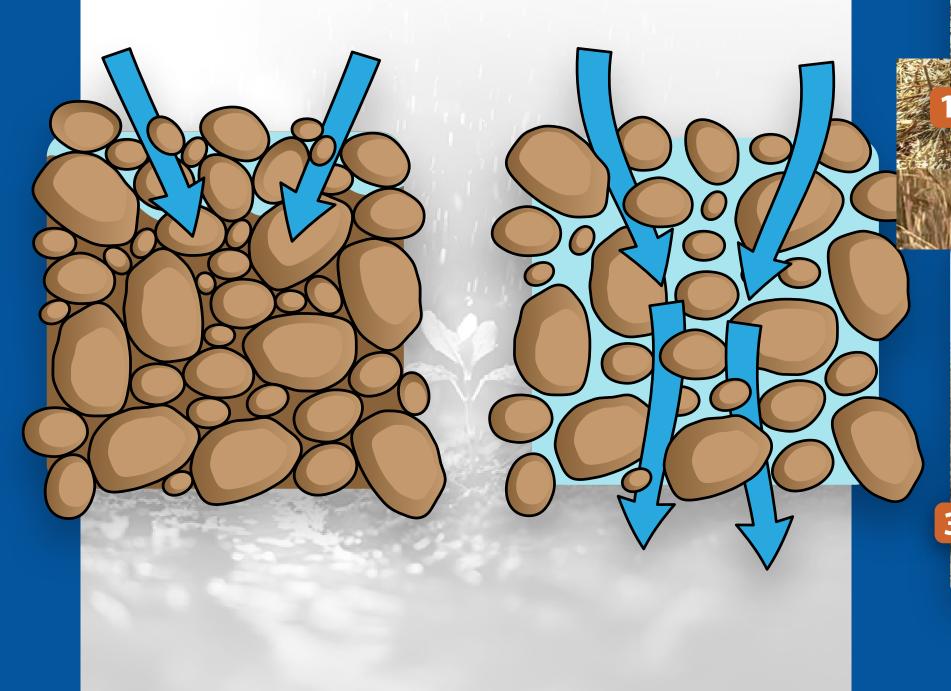
In this way, soil hydraulic conductivity can be used to characterize abrupt changes in macroporosity.

### **WHY MEASURE SOIL WATER PERMEABILITY?** TO DESCRIBE THE CAPACITY OF A SOIL TO STORE, DRAIN AND DISTRIBUTE WATER.

THE MANAGEMENT AND USE OF IRRIGATION WATER.

THE SIZING OF HYDRAULIC PROJECTS.

PREDICT SOIL BEHAVIOR IN THE FACE OF ADVERSE CLIMATIC EVENTS.



#### **ESSENTIAL INFORMATION FOR:**

## ASSESSING PERMEABILITY HAS NEVER BEEN **SO SIMPLE:**

**TIME-SAVING** MORE **PRATICAL AUTOMATED** RECORDS

Preparing the measurement wel



# Solo**Flux** Assembling the equipment



Automated measurement • Export data via *app* 







EASY DATA EXPORT AND STORAGE

#### SOFTWARE FOR DATA VISUALIZATION



## **CALCULATES SATURATED** HYDRAULIC CONDUCTIVITY (Ksat)

**NO NEED FOR CONTINUOUS MONITORING BY AN OPERATOR** 

**USB** 

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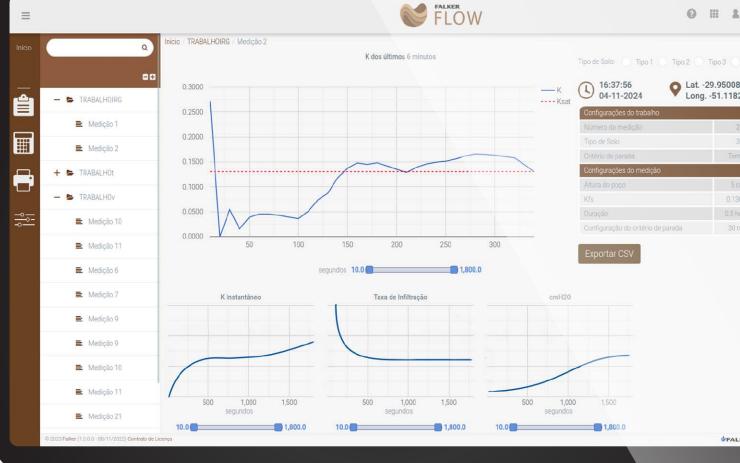
WITH MORE PRECISE RESULTS

**COMPARE THE EVOLUTION OF MEASUREMENTS AT EACH COLLECTION POINT** 

#### ✤ SYNCHRONIZATION WITH THE WEB VERSION



Solo

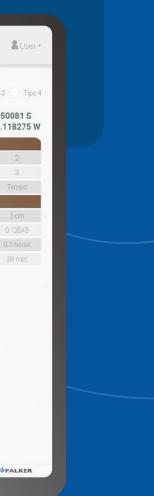












## Technical information

	SFX1050
Reservoir volume	150 oz / 4,6 L
Maximum measuring depth	60 cm For greater depths, contact the sales team
Applicable hydraulic load	5 and 10 cm
Measurement resolution	0.1mm of water
Precision	+/- 0.5mm of water
Power Suply	Internal rechargeable battery USB-C connector
Indications for users	Graphic LCD screen with BackLight + Sound indication
Weight	15  lb/7 kg (33 lb/ 15kg accounting for all item
Receptor GPS receiver	Built-in
Communication	USB and Bluetooth
App/Web	Falker Flow



- 1 SoloFlux SFX1050
- **2** Datalogger SFX1050
- ③ Measuring Set
- ④ General fixing rod
- **⑤** Dutch Auger
- 6 Mug Auger
- **⑦** Well Brush
- ③ Cleaning Accessories
- Ollapsible water container 10 USB-A/USB-C cable





