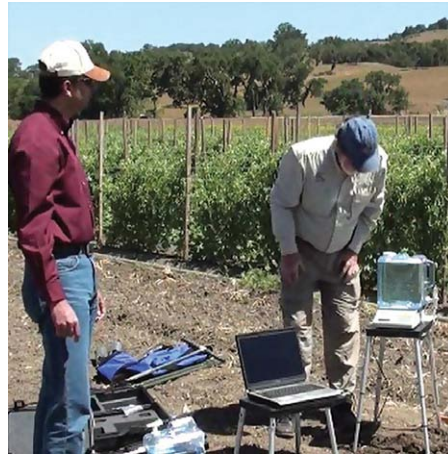# Aardvark automatic permeameter

Automated Ksat - Percolation test measurements

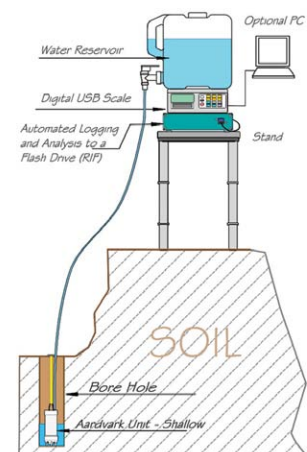*09.12.01 Aardvark for use with PC*

09.12.04 Aardvark for use with (flash) logger

Aardvark permeameter: "Getting soil - water relationships right"

Knowing soil hydraulic characteristics is essential for many agronomic applications such as irrigation scheduling and application rates, watershed and runoff predictions, and drainage system capacities. In civil engineering, for example, canal and reservoir construction and monitoring, impoundments and landfill characterizations rely on knowing sub surface hydraulic conductivity. Environmental hazards from mine tailings, hazardous waste storage sites, septic field and tank retaining systems, also rely on permeability measurements. The Aardvark permeameter is battery-operated and the only fully automated Constant-Head Borehole Permeameter. It automatically measures soil hydraulic conductivity (Ksat) and other related parameters like sorptivity and percolation (Perc) rate.

Features

- Vast range of operations 10^{-4} - 10^{-9} m/s
- Automatic determination of steady state
- Alarm alerts you when completed
- High precision 0.2 ml flow detected
- Logging intervals as short as 1 minute apart
- Graphical display of logs • GPS coordinate locations
- Fully automated performance and calculations
- Standard analysis choices
- Stand alone operation — set it and forget it!
- One person can operate many units simultaneously

All it takes for environmental research

System options

09.12.01   Aardvark permeameter for automated measurements to a depth of 1524 cm (50 ft) using a PC* or tablet. Complete system with digital scale, adjustable table, Aardvark unit, reservoir, measuring tape, tubing, regulator unit, accessories, software and carrying cases.
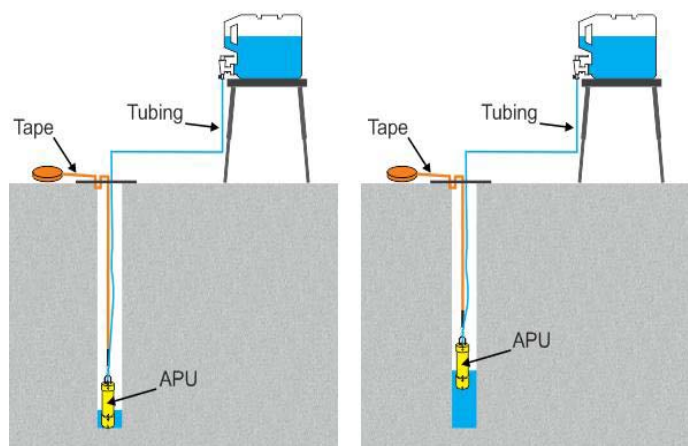
09.12.04   Idem, using a (flash) logger (included).

* PC not included

System specifications

Standard borehole diameter: 10 cm (4 inch)
Minimum water supply: 0.95 l/min (0.25 gal/min)
Maximum operating depth: 1524 cm (50 ft)
Reservoir volume: 7.5 l (2 gal)
Carrying Case: 71.1 x 43.2 x 17.8 cm (28"x17"x7"); 6,6 kg (14.6 lbs)
Scale: 10 kg x 0.2 g
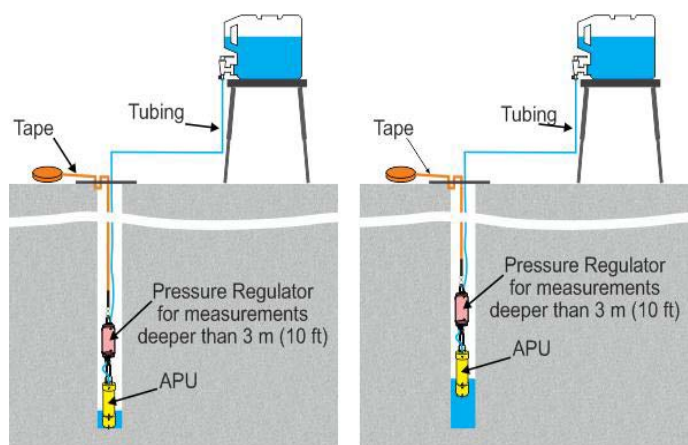PC Requirements: Windows 2000 or newer, .NET Framework (included in Windows Vista and newer).

09.12.04   Set packed in cases

*Aardvark permeameter module
and pressure regulator*

Shallow Measurement
Standard Head Height

Shallow Measurement
Raised Head Height

Deep Measurement
Standard Head Height

Deep Measurement
Raised Head Height