

Product Name :
Rainfall Hydrograph**Product Code :**
ALABS-A113-003ALTEC™**Description :****Rainfall Hydrograph**

Hydrograph are an important tool for the representation of hydrological data such as precipitation, groundwater levels or discharges. Precipitation of varying duration and intensity. The storage capacity of soils with different saturation is also examined. Using various dewatering is examined it is possible to demonstrate the relationships between precipitation and seepage. The trainer includes a tank with a sand filling, which is flowed through by water. The water is supplied to the tank via a precipitation device with two nozzles that can be adjusted separately via valves. To study different drainages, the water is drained either via a drainage pipe or a drain chamber, which is separated from the experimental section by a screen. The draining water is distributed over 17 transparent chambers. This creates a profile over time of the water drain. The water levels are measured and plotted in a hydrograph. Drip pans can be used to demonstrate the lag of the drainage through rainwater retention basins. The water supply is controlled by a valve and read on a flow meter. The timed discharges are adjusted via electronic timers. The well-structured instructional material sets out the fundamentals and provides a step-by-step guide through the experiments.

Experiments:

- Effect of precipitation of varying duration or intensity on soils with different saturation
- Record hydrographs after precipitation
- Storage capacity of soils with different saturation
- Compare natural dewatering with dewatering via drainage pipe
- Influence of rainwater retention basin on the hydrograph



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