

# SOIL MOISTURE SAMPLING

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## Mobile soil moisture sampling systems

**12.01.SA** Soil moisture sampler system, minimal set for singular sampling to a depth of 1.5 m

**12.01.SB** Soil moisture sampler system, standard set for multiple sampling to a depth of 1.5 m

Because of the small diameter of the ceramic cup applied and the fact that the probes can be extended, these are fast and mobile systems for sampling in different places and at various depths.

Both sets operate according the same principle. A hollow porous tube is placed in the soil. By creating an under pressure on the inside of the porous tube (with the vacuum pump or vacuum tank) the soil moisture will be drawn in.

The minimal set for singular sampling (12.01.SA) among other items, contains: an upper part, a gouge auger (for pre-drilling), a probe with porous cup, a stainless steel extension pipe for the probe, a push-

/pull handle, a vacuum pump with manometer, teflon tube, a silicon stopper and a case with sampling bottles, various accessories and a carrying bag.

In addition to the above mentioned, the set for multiple sampling (12.01.SB) also contains: an extension piece for the gouge auger, a number of extra insertion probes with extension pipes, suspension clamps for sampling bottles, a vacuum tank with pump suitable for connection of a maximum of 5 insertion probes, a utility rod (for safe detection of cables, lines and pipes) an aluminium carrying-/transport case.

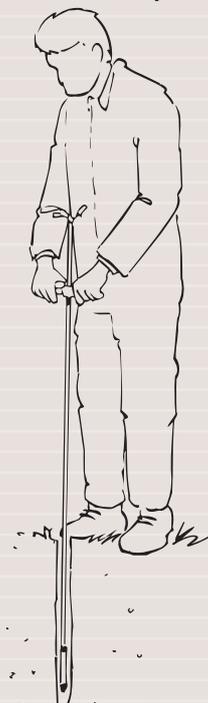
### Applications

The sets are applied for the determination, among other facts, of:

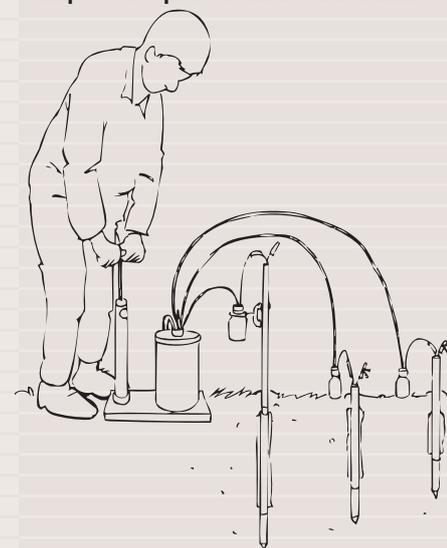
- Salinity measurements in the soil after irrigation or the application of fertilizers or manure.
- The washing in or out of various elements and compounds.
- Pollution in the unsaturated zone.

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Using the push-/pull handle the probe is pushed into the pre-drilled hole.



Using the vacuum tank several samples are placed under vacuum.



Insertion probe and extension pipe



Soil moisture sampling system (SA)



Vacuum tank with vacuum pump

## BENEFITS

### 12.01.SA Soil moisture sampler system

- Mobile system for soil moisture composition
- Pure Al<sub>2</sub>O<sub>3</sub> ceramic allow many analyses
- Ceramic tube field / user replaceable
- 12.01.SB gives averages in a short field time



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