

The IMKO HD2 - measuring the soil moisture content, the soil conductivity EC, and the level of salt contamination can now be performed as fast and easy as never before!

Precise as a laboratory and as mobile as a cell phone

The measurement of the moisture content, the soil conductivity, as well as the level of salt contamination is consistently gaining in significance within agricultural technology, hydrology, geology, and science. But how can the respectively required parameters be determined on a fast and simply basis directly at the location? Up to this point of time, the standard laboratory methods were too complex and any mobile alternatives, based on measurement systems featuring capacitive technology, were so inaccurate that it was impossible to deliver results containing precise statements to the level of salt contamination.

IMKO committed itself to provide a solution to this challenge and subsequently developed a completely new and user-friendly method for the determination of the salt contamination. With the novel TRIME-PICO TDR probes. With the help of especially coated probe rods and the volumetric TDR measurement of the moisture content and the conductivity EC_{TRIME} with 1 GHZ frequency, it is now possible to determinate the salt content in various types directly at the location without the additional necessity of applying any complex laboratory methods.

Handy, precise, and delivers results within seconds – the IMKO HD2

Connected to the mobile moisture measurement system HD2 is the robust two-rod probe TRIME-PICO64. To perform a measurement, the probe rods are simply inserted into the soil and the Start-button is actuated to initiate the measurement. Within two seconds, the moisture content value, the temperature, and the soil conductivity EC are displayed on the clear display. The probe TRIME-PICO64 measures with the new TRIME®-radar technology (Time-Domain-Reflectometry). The PICO64 accurately measures the water content, both in the dry and moist range, via an electro-magnetic TDR pulse with 1 GHz frequency up to the point of saturation and even beyond. Featuring a very large measurement volume of 1.25 litres, it is also possible to precisely measure the conductivity EC. In contrary to other measurement methods, the new method does not encounter any contact problems in soils.



The robust and water-tight portable measuring instrument warrants for safe handling even under difficult ambient conditions. For mobile deployment, the device is provided with a hard-wearing hard-top case.

For further information, see under: www.imko.de