

HydraGo

Rugged, accurate and easy-to-use portable soil data collection

Take soil measurements anywhere for those applications not requiring a permanent soil monitoring system. Your Apple or Android device communicates wirelessly with the HydraGo using bluetooth.

HydraGo features a rugged, engineered resin housing that contains a rechargeable battery good for a full day's heavy use. It comes with a detachable ergonomic pole so it can be inserted without bending over.

Simply insert the probe into the soil, and tap the "Sample" button in the HydraMon app. The app will display soil moisture content, temperature, conductivity, and dielectric permittivity on-screen for immediate viewing. All data can be saved and emailed as a .CSV file for analysis in Excel. Notes and location names can be added to the data records.

HydraGo (art. no.: 142820) uses the same patented soil sensor as the HydraProbe.

Applications: agriculture, scientific research, watershed management, greenhouses, ground-truthing, soil quality assessments, soil surveys.



Technical specifications

Item	Specification
Battery type	Rechargeable NiMH battery, 3.6 V / 300 mAh
Wireless protocol	Bluetooth
Housing	Anodized aluminum with an acetal endpiece
Operating temperature	-10°C to +65°C (14°F to 149°F)
Soil probe	HydraProbe (ratiometric dielectric coaxial impedance)
Soil tine assembly	Marine grade stainless steel
Parameters measured	Soil moisture, temperature, bulk electrical conductivity, dielectric permittivities
Dimensions	Adjustable from 70 cm to 153 cm including both the pole and the sensor body Sensor body is 20 cm in length including tines, 7.5 cm in diameter at the top of the main body
Moisture	Range: From completely dry to fully saturated (from 0% to 100% of saturation) Accuracy: ± 0.01 WFV for most soils, $\pm \leq 0.03$ max for fine textured soils*
Bulk electrical conductivity	Range: 0 to 1.0 S/m $\pm 2.0\%$ or 0.02 S/m whichever is typically greater*
Real dielectric permittivity (isolated)	Range: 1 to 80 where 1 = air, 80 = distilled water Accuracy: $< \pm 0.5\%$ or ± 0.2 dielectric units
Temperature	Range: -10°C to +60° C Accuracy: $\pm 0.3^\circ$ C
Article number	142820

* Accuracy may vary with some soil textures.

