

Aranet Soil VWC, EC and T sensor

Measurements	Soil Moisture and Electrical Conductivity (EC) and Temperature
Line of Sight Range	Up to 3 km / 1.9 mi
Operating environment	Indoor and Outdoor use
Transmitter power	14 dBm
Frequency	Depends on base station instructions

Volumetric Water Content (VWC)

Range	0.00–0.70 m ³ /m ³ (Mineral Soil), 0.0–1.0 m ³ /m ³ (Soilless media)
Resolution	0.001 m ³ /m ³ (0.1%)
Accuracy *	±0.03 m ³ /m ³ typical in mineral soils @ EC<8 mS/cm
	±0.01–0.02 m ³ /m ³ in any porous medium

Apparent dielectric permittivity

Range	1 (air) – 80 (water)
Resolution	0.01
Accuracy	1–40, ±1 (unitless)
	41–80, 15% of measurement

Temperature

Range	-40°C to 60°C
Resolution	0.1 °C
Accuracy	±1 °C