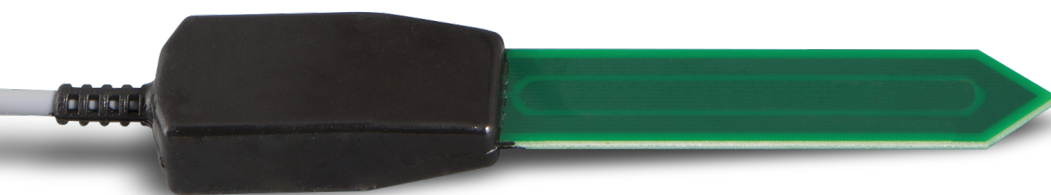# Aranet Soil Moisture sensor

aranet

1. Measures soil moisture
2. Data transmission every 1, 2, 5, 10 minutes
3. Up to 3 km / 1.9 mi range
4. Up to 10 years of battery life

Cost-effective wireless soil moisture sensor designed for wide range applications for efficient monitoring of irrigation delivery to plants.

Aranet Soil Moisture sensor datasheet

Measurements	Soil volumetric water content			
Line of sight range	3 km / 1.9 mi			
Operating environment	Indoor and outdoor use			
Transmitter power	14 dBm			
Frequency	Depends on base station instructions			
Measurement range	0-100 %			
Measurement resolution	0.1%			
Measurement accuracy	±15 %			
Data transmission	1, 2, 5, 10 minutes			
Data protection	Data encryption			
Power options	1 AA Alkaline battery (Zn/Mn0_2) 1 AA Lithium battery (Li/FeS$_2$)			
Battery life @20 °C / 68 °F	Up to 7 years with Alkaline battery Up to 10 years with Lithium battery			
Operating temperature	2 - 45 °C			
Operating humidity	0 % to 100 %			
Dimensions	Ø35 mm x 120 mm / Ø1.4" x 4.7" (sensor body)			
Weight	115 g (1.5 m cable length)			
Construction	ASA Plastic (sensor body)			
Protection class	IP67			
Marking	CE			
Compatible base stations	Aranet PRO (from sw v1.4)			
Included	1 AA Alkaline battery, string			
Cable length	1.5 m	5 m	10 m	20 m
Part number	EU: TDSPSM02.015 NA: TDSPSMU2.015	TDSPSM02.050 TDSPSMU2.050	TDSPSM02.100 TDSPSMU2.100	TDSPSM02.200 TDSPSMU2.200