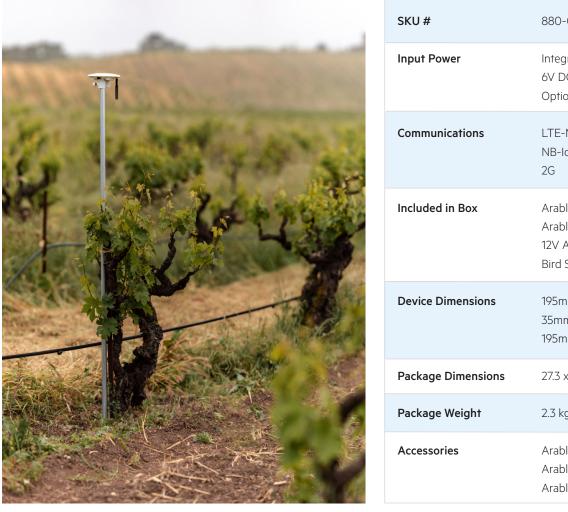


Mark 2 Product Specifications

An all-in-one weather station and crop monitor, the Mark 2 synthesizes climate and plant data for actionable insights in all growing conditions. A full sensor suite delivers 40+ climate and plant metrics. A global network of 30 calibration-validation sites covers 12 climatic zones to improve machine-learning models for accurate, reliable data. The device features a robust sensor suite, rugged durability, and cutting-edge global cellular connectivity.



Hardware Specifications



SKU#	880-0001-07
Input Power	Integrated Solar Module 6V DC (External Solar) Optional: 12V DC (Expansion Connector)
Communications	LTE-M NB-loT* 2G
Included in Box	Arable Mark 2 Arable Solar 12V AC/DC Adapter Bird Spikes
Device Dimensions	195mm diameter 35mm height (device body) 195mm height (w/antenna)
Package Dimensions	27.3 x 27.3 x 20.3 cm
Package Weight	2.3 kg / 5 lbs
Accessories	Arable Bridge Arable Telescoping Pole Arable Ground Anchor

*Availability dependent on location.



Mark 2 Product Specifications

Rev 10/2020

Measurements

Precipitation	Range Rain rate resolution Accuracy Precipitation type		0 to 100 mm/hr 0.1 mm ±6% Rain, mixed drizzle/rain (sleet, snow and hail excluded)			
Temperature	Range Accuracy Measurement interval % Daily exceedance		Calibrated -18° C to 45° C Within calibrated range: ±0.8° C / Outside calibrated range: ±1.5° C 5 minute < 5% 2° C 0.1% > 5° C			
Relative Humidity	Range Resolution and units Accuracy Nominal drift		1 to 100% RH .1% RH ±5% <0.25% RH/year			
Pressure	Range Resolution and units Accuracy Nominal drift		50 kPa to 110 kPa absolute pressure; tested 95 to 102 kPa ±0.1 kPa < 0.5 kPa ±0.1 kPa/year			
Radiometry	Range Resolution and units Accuracy Cosine response		0 to 1200 W/m2 1 W/m2 ±10% of full scale (Reference: Apogee at 1000 W/m2) ±25% for angle of incidence from 0° to 75°			
Spectrometry	Waveband Blue Green Yellow Red Red-edge NIR 1 NIR 2	FWHM range 420 - 480 nm 490 - 560 nm 560 - 610 nm 640 - 700 nm 730 - 760 nm 800 - 855 nm 920 - 965 nm	Sensor peak res 430 nm 550 nm 590 nm 670 nm 745 nm 840 nm 940 nm	sponse	Band ID Band 1 Band 2 Band 3 Band 4 Band 5 Band 6 Band 7	

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Arable Solar is an external solar panel for improved power reliability at all latitudes. The 5 watt 6 volt panel is lightweight, waterproof, and designed for long term outdoor use in any environment. Arable Solar features a robust custom mounting plate and clips that firmly and easily attach to the Mark's mounting pole.



Hardware Specifications

SKU#	850-0024
Output Power	Open Circuit Voltage: 7.13V Peak Voltage: 6.12V Peak Current: 940mA Peak Power: 5.75W Power Tolerance: +/-10%
Materials	High-efficiency monocrystalline cells Waterproof (IP67) UV-resistant Matte ETFE coating
Compatible With	Arable Mark 2 Arable Bridge Arable Telescoping Pole
Included in Box	Arable Solar w/ Mounting Plate and Clips Solar-to-Bridge Connector Cable Quick Start Guide
Product Dimensions	22.2 cm height 13.7 cm width 5 cm depth (including clamps)