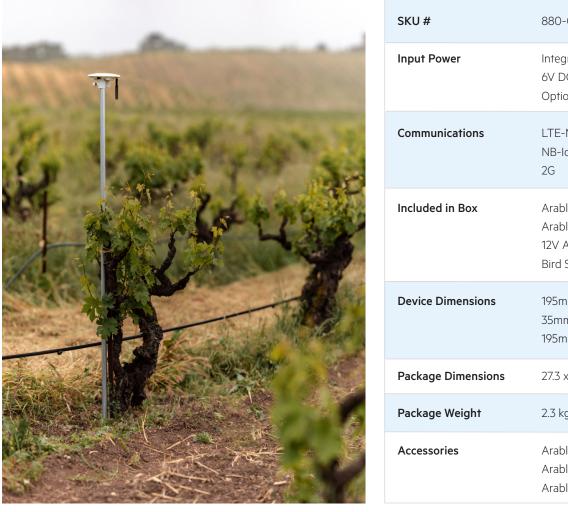


## Mark 2 Product Specifications

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 Accuracy Nominal drift	units	1 to 100% RH .1% RH ±5% <0.25% RH/year			
Pressure	Range Resolution and Accuracy Nominal drift	units	50 kPa to 110 kPa absolute ±0.1 kPa < 0.5 kPa ±0.1 kPa/year	e pressure	; tested 95 to 102 kPa	
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	

Arable Labs, Inc. Page 2



## **Solar** Product Specifications

Arable Solar is an external solar panel for improved power reliability at all latitudes. The 3.5 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#	850-0022
Output Power	Open Circuit Voltage: 7.7V Peak Voltage: 6.5V Peak Current: 550mA Peak Power: 3.5W Power Tolerance: +/-10%
Materials	High-efficiency monocrystalline solar cells 3mm aluminum-plastic composite substrate UV- and scratch-resistant urethane 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	21 cm height 11.3 cm width 5 cm depth (including clamps)