

## Decision Agriculture.

Arable measures microclimate and crop productivity, enabling seed breeders to monitor and evaluate phenotype performance under varying environmental conditions.

### Weather for Open-Field Breeding

- Monitor environmental stressors with hourly field-level weather updates that correlate precipitation events, humidity, dew point, leaf wetness and temperature.
- Identify disease risk and fungal pathogen tolerance windows with daily sunlight hours and temperature ranges.
- Baseline photosynthesis of high-performing varieties with solar radiation measurements.

### Insights on Plant Growth

- Understand drought tolerance, plant water levels and transpiration rates by linking plant canopy temperature with ambient air temperature.
- Identify changes in the plant development process affected by nutrition and environmental stressors through NDVI and Chlorophyll content.
- Track accumulated heat units to evaluate plant performance crop growth stages using field-level GDD.



## Simple. Reliable. Durable.

- The Arable Mark 2 is the first IoT-enabled weather and crop monitor with extended LTE-M & 2G coverage.
- Solar power, fit-for-the-farm durability, and easy installation increase efficiency to boost your bottom line.
- Access your data anytime, anywhere via our intuitive, user-friendly web platform and mobile app.
- Connect third-party sensors to pull in soil, wind, water flow data, and more.



Ask us  
about...

Arable **Mobile**, our new mobile app for on-the-go data access.  
Arable **API 2.0** allows for integration into the business tools you already use.

## Arable Mark 2 Tech Specs

Unique Data. Unique Insights.



### Precipitation

Rainfall to +/- 6%/hr  
Dew Detection



### Evapotranspiration

Dynamic Kc  
Forecasted Crop ET



### Radiation

Solar Radiation



### Plant Health

NDVI  
Chlorophyll Index  
7-Band Spectrometer



### Weather

Temp to +/- 0.8°C at solar noon  
Rel Humidity to +/- 5%  
Pressure < 0.5 kPa



### Harvest / Event Timing

Growing Degree Days



### Integrations / Accessories

Soil Moisture Probes  
Wind Speed & Direction  
Pressure Switch/Transducer  
And More



### Cellular Connectivity

LTE-M  
NB-IoT\*  
2G  
\*Availability dependent on location