ARABLE

Reach your R&D objectives with Arable's accurate data, powerful agronomic models, and simple, state-of-the-art design.

BETTER DATA IS AVAILABLE, AND IT'S EASIER THAN YOU THINK

- **Simplify and consolidate in-field data capture** with a single easy to install, maintenance-free all-in-one device.
- **Make better advancement decisions** with accurate, continuous data analytics.
- **Run more effective trials** and market products more effectively.

- **Use an evidence-based approach** to verify when products and solutions are optimized for specific environmental conditions.
- **Rely on one consistent data set across research stations** to understand relative product performance from around the globe.

"Leveraging Arable's easy-to-use, accurate technology, we can further optimize our selection process and give growers the best traits for their unique environments."

- Mike Graham, Head of Plant Breeding at Bayer's Crop Science Division

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Environmental Monitoring

Research-grade accuracy for field-level microclimate weather data including precipitation, humidity, dew point, leaf wetness and temperature.

Disease and Pathogen Assessments

Identify disease risk and fungal pathogen tolerance windows with daily sunlight hours and temperature ranges.

Crop Growth

Track accumulated heat units to evaluate plant performance and crop growth stages using field-level growing degree days (GDD).

Plant Development

Identify changes in the plant development process affected by nutrition and environmental stressors through NDVI and chlorophyll content data.

Phenotype Performance

Easily measure microclimate and crop productivity to monitor and evaluate phenotype performance under varying environmental conditions.

Arable Mark 2 Specifications

Precipitation
Rainfall to +/- 6%/hr
Dew detection

Evapotranspiration
Dynamic Kc
Forecasted crop ET

Radiation
Solar radiation

Plant Health
NDVI
Chlorophyll index
7-band spectrometer

Temperature
Temp to +/- 0.8°C at solar noon
Relative humidity to +/- 5%
Pressure < 0.5 kPa

Harvest Timing
Growing degree days (GDD)

Integrations
Soil moisture probes
Wind direction and speed
Pressure switch

Cellular Connectivity
LTE-M
NB-IoT*
2G
**Availability varies by location*