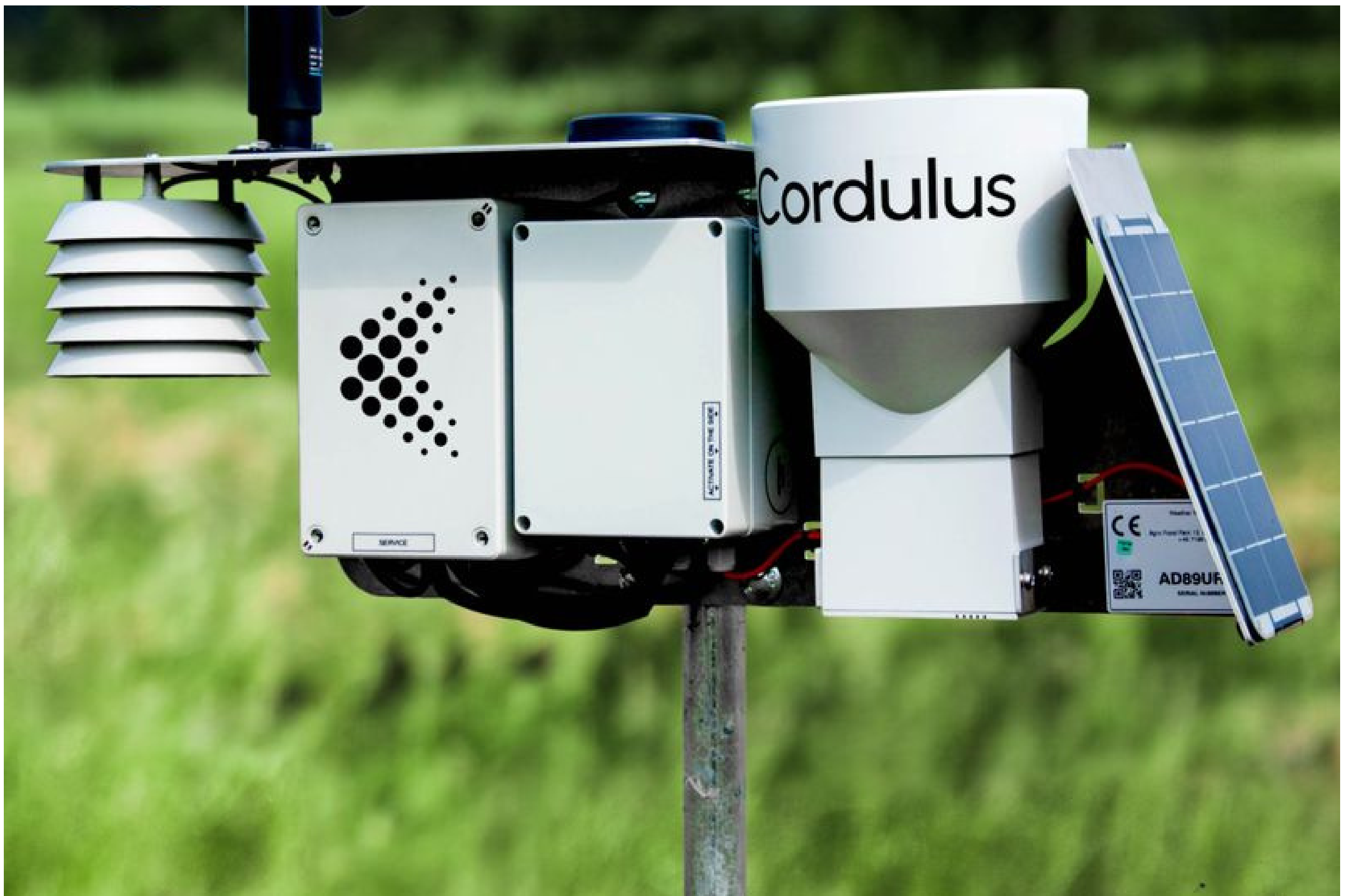




# CORDULUS WEATHER

Precision & Innovation



# A JOURNEY TOWARDS SUSTAINABLE PROSPERITY

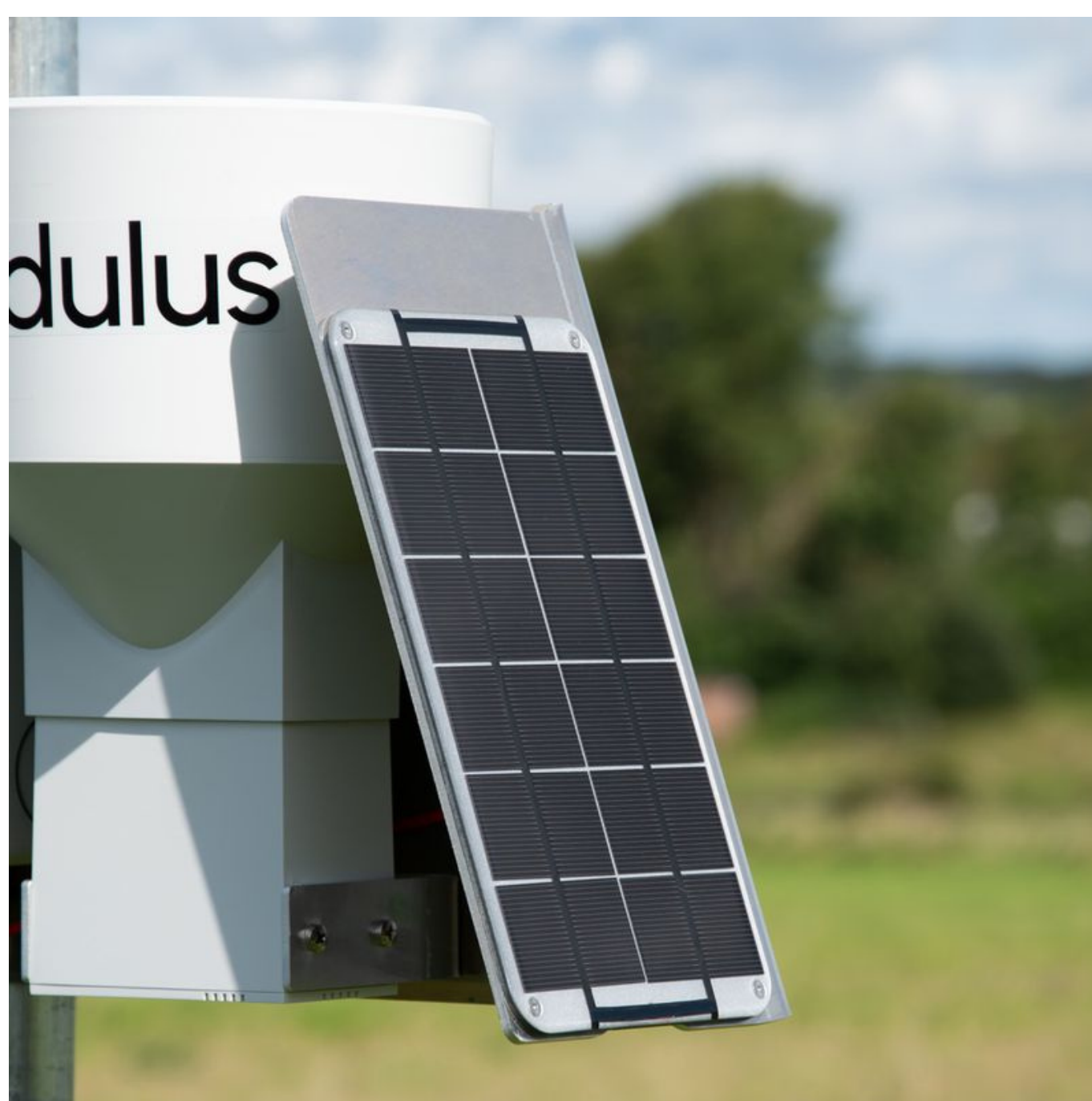
## Introduction:

Welcome to the future of agricultural meteorology with Cordulus Farm weather stations. In collaboration with AgrAssure here in the UK, we are proud to introduce a system that seamlessly marries functionality with longevity, ensuring that our farmers receive the most accurate and timely weather data without compromising on durability.

In the ever-evolving world of agriculture, understanding the microclimates of your fields is no longer a luxury but a necessity. While most meteorological measurements are made across larger regions, we recognise that weather can vary greatly even within short distances. This is where the Cordulus Farm weather station steps in, providing hyper-localised data that can make all the difference in your farming decisions.

With the backing of AgrAssure, a trusted name in the UK agricultural sector, our commitment is to offer you a tool that not only stands the test of time but also becomes an indispensable part of your farming operations. Together, we aim to elevate the standards of sustainable farming, one weather station at a time.

Join us on this journey towards a brighter, more prosperous, and sustainable agricultural future.



## The Best of Both Worlds

In collaboration with AgrAssure, a leader in UK's agricultural sector, Cordulus is proud to present a suite of hardware components meticulously designed to cater to the unique challenges and needs of modern farming.

### Rain Gauge:

Harness the power of our patented self-emptying single spoon tipping bucket system. Crafted from a dismissive material (POM), it ensures minimal dust and dirt adhesion while maximising water release. With a resolution fine-tuned to 0.25 mm, we guarantee an accuracy of  $\pm 2\%$ , setting a new industry standard.

### Wind Speed:

Why measure wind 10 meters above when your crops are at ground level? Our wind sensor, made from a robust aluminium alloy with a polyester coating, ensures precise crop-level measurements. Experience unmatched accuracy from 0.5 m/s to 50 m/s, ensuring you have the data where it truly matters.

### Air Measurements:

Our three-in-one sensor, discreetly housed within the Stevenson Screen, provides you with vital data on air temperature, humidity, and pressure. Compact yet powerful, this sensor ensures precision without any interference from external weather conditions.

### Soil Temperature:

Our practical soil temperature sensor comes armoured in a metallic mesh, warding off potential damage from rodents. With its intuitive red depth marker, installation is always straightforward and hassle-free.

### GSM and GPS:

Reliability is at the heart of our design. By leveraging the robust GSM network, we ensure consistent data transmission. Coupled with an integrated GPS module, your weather station is not only easily trackable but also safeguarded against potential theft.

### Solar Powered Battery:

Sustainability meets efficiency with our intelligent battery system. Powered by solar energy, it promises weeks of operation on a single charge. And with just 8 sunny hours, it's fully recharged and ready to go. Our adaptive charging system ensures the battery remains in optimal condition throughout its lifespan.



## Data Driven

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## Historical Measurements:

Understanding the past is key to shaping the future. Our platform allows you to delve deep into historical weather data, providing invaluable insights that can guide future farming decisions and strategies.

## Forecasts:

Step into the future with our AI-enhanced, field-specific weather forecasts. Cordulus utilizes revolutionary AI technology, combined with AgrAssure's deep understanding of UK agriculture, to provide hyper-local forecasts that you can trust. Say goodbye to generic predictions and embrace the precision of our tailored forecasts.

## Real-Time Readings:

Stay updated, always. With updates every 10 minutes, you're always in the loop about the current conditions of your fields. This frequency ensures you're equipped with the most recent data to make timely decisions.

## Farming Dashboards:

Our tailored dashboards offer a comprehensive overview of your farming activities. From spraying and harvesting to drilling analyses, we provide actionable insights that help prioritize and streamline operations.

## Risks & Threat Assessments:

Protect your crops proactively. By leveraging local weather data, our platform identifies potential threats from pests and diseases, allowing you to take preventive measures before they become critical issues.

## Cordulus Network Stations:

Expand your horizons by connecting to our broader network. With access to data from 5 additional weather stations, you can gain a more comprehensive understanding of regional weather patterns, enhancing your own farm's data-driven strategies.

In collaboration with AgrAssure, Cordulus is dedicated to empowering UK farmers with the tools and insights needed to thrive in an ever-evolving agricultural landscape.

# Revolutionising Forecasting A New Era in Agricultural Meteorology

## Predict Farm Movements

In a world where precision matters, traditional weather models often fall short, offering broad predictions that may not reflect the unique conditions of individual farms. AgrAssure, in collaboration with Cordulus, recognises these challenges faced by UK farmers and is committed to addressing them head-on.

## Traditional Weather Models:

Historically, weather forecasts have been based on large grid models, often overlooking the hyper-local nuances of weather. This has led to discrepancies between forecasts and actual conditions, making it challenging for farmers to plan their activities with confidence.

## Disruptive Technology by Cordulus:

Enter Cordulus' groundbreaking technology. By integrating AI-enhanced forecasting with a vast network of weather stations, Cordulus offers hyper-local predictions that are tailored to specific fields. This disruptive approach ensures that forecasts are not only accurate but also actionable.

## Data-Driven Accuracy:

With over 730 million data points collected and processed, Cordulus' forecasts are unparalleled in precision. This vast reservoir of data, combined with AgrAssure's expertise in UK agriculture, ensures that farmers receive forecasts that are both reliable and relevant.

## Voices from the Field - Testimonials:

"Since integrating Cordulus' forecasts into our operations, we've seen a marked improvement in our planning and productivity."

"The accuracy of Cordulus' predictions, combined with the insights from AgrAssure, has truly revolutionised how we approach farming."

## Commitment to Excellence:

At Cordulus, innovation doesn't stop. With half of our team dedicated to product development and applied meteorology, we are constantly pushing the boundaries of what's possible in agricultural meteorology. In partnership with AgrAssure, we are set on a path to continuously refine and enhance our offerings for the UK farming community.

Join us on this journey as we redefine the future of farming, one accurate forecast at a time.