



Turkcell Filiz Agricultural Sensor Station







3 Years
Battery Life




Nb-IoT




Weather &
Soil Sensor




Plug & Play



Irrigation
Management



Fungal
Management

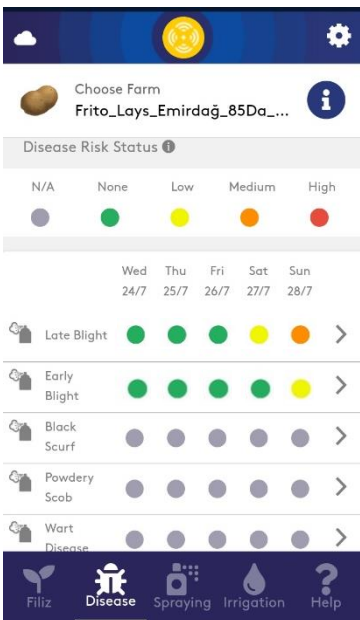


Smart Phone
App

Doktar's Disease Models ● ● ● ●

Disease models use sensor parameters to calculate the risk of fungal disease infection periods and help farmers save money by avoiding disease epidemics and unnecessary sprays.

Sample Potato Disease Models



Potato Late Blight Disease (*Phytophthora infestans*)

Model calculates a disease index in days with high humidity or rain and average temperature between 13 to 25 °C degrees.

Potato Early Blight Disease (*Alternaria solani*)

A disease severity value is calculated based on the leaf wet hours and the average temperature in those hours.

Specifications	Turkcell Filiz	Competition
Installation	None	Required
Calibration & Maintenance	None	Required
Air Temperature & Humidity	✓	✓
Soil Temperature & Moisture	✓	✓
Wind Speed & Direction	-	✓
Disease Models	✓	✓
Spraying Time Recommendation	✓	-
Irrigation Recommendation	✓	✓
Date Viewing Platform	Web + App	Web
Communication Module	Nb-IoT & 2G	Wi-fi
Energy	Battery	Sun Light
Price	€ 650	€ 5000-6000