

Precision Irrigation

At the **right time**, with the **right amount**

T-Irrigate is an **AI-based irrigation optimization solution** that enables farmers to execute their **irrigation activities with the right amount, at the right time**. In order for the service to work efficiently, various sensors need to be implemented within the field.



Our Sensors

- Soil Moisture & Temperature
- EC - Electrical Conductivity
- Ultrasonic Flowmeter
- Water Pressure
- Water Level
- Flowmeter
- GPS



Science-based irrigation decisions with Artificial Intelligence and Sensors



Data from individual soil sensors at different levels beneath the ground is collected, analyzed, and scored by our AI Platform for each irrigation.



Field-specific calculations such as the **Root Zone Moisture Index**, **Irrigation Start Level**, **Irrigation Cut-Off Level**, and **Optimum Irrigation Area** are created by Artificial Intelligence.

T-IRRIGATE

Discover our **optimization solutions** designed
for all irrigation methods!



Drip Irrigation



Pivot Irrigation



Sprinkler Irrigation



4 Soil Moisture & Temperature Sensors
under the emitter
Flowmeter
EC Sensor (Optional)



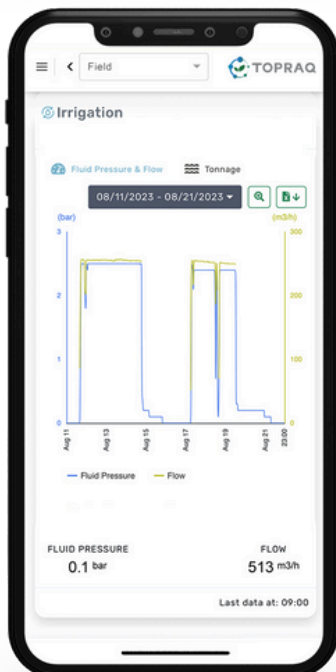
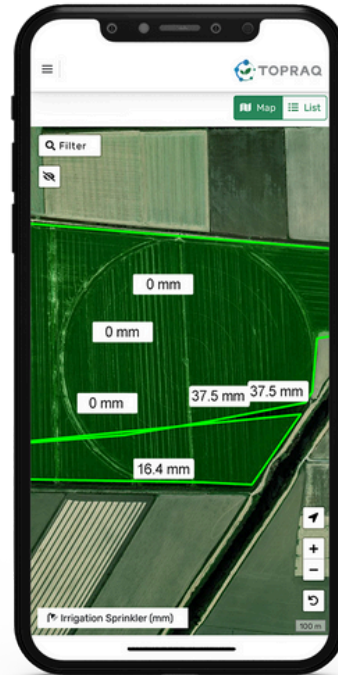
4 Soil Moisture & Temperature Sensors
under the emitter
2 Soil Moisture & Temperature Sensors
between two emitters
Flowmeter
EC Sensor (Optional)



Placing **Water Pressure Sensor** on
critical points over the irrigation line, we
enable farmers to take prompt action.



By integrating various sensors such as **Rainfall, Water Pressure, Ultrasonic Flowmeter, GPS** and others into pivot irrigation systems, we help our farmers conduct their pivot irrigations with enhanced efficiency and precision.





T-IRRIGATE

Intelligent Irrigation Systems and Field Management!

Our primary differences:

- Field managers and farm owners have full visibility into their fields **with real-time data**
- **Electricity saving**
- Detailed information about what's happening under the ground
- Efficient **irrigation audit** throughout the irrigation line
- Irrigation information in mm via **Rainfall Irrigation data**
- **Tonnage information** through Ultrasonic Flowmeter
- **Minimizing employee mistakes**
- **Input optimization**
- **Preventing waste** of valuable water and other resources (fertilizer, labor, etc.)
- Ensure **sustainability in agriculture**



Real-time & scheduled field data, right to your mobile phone!

Topraq Smart Assistant is an AI-based BOT software built within Telegram to help users communicate with their systems on a **real-time basis**.

- ▶ Irrigation Planning
- ▶ Irrigation Duration
- ▶ Irrigation Start & Cut-Off
- ▶ Active Irrigation Inquiry
- ▶ Pressure Abnormality Alarms



TOPRAQ



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