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AUTOFARM®

Total Farm Automation



ABOUT

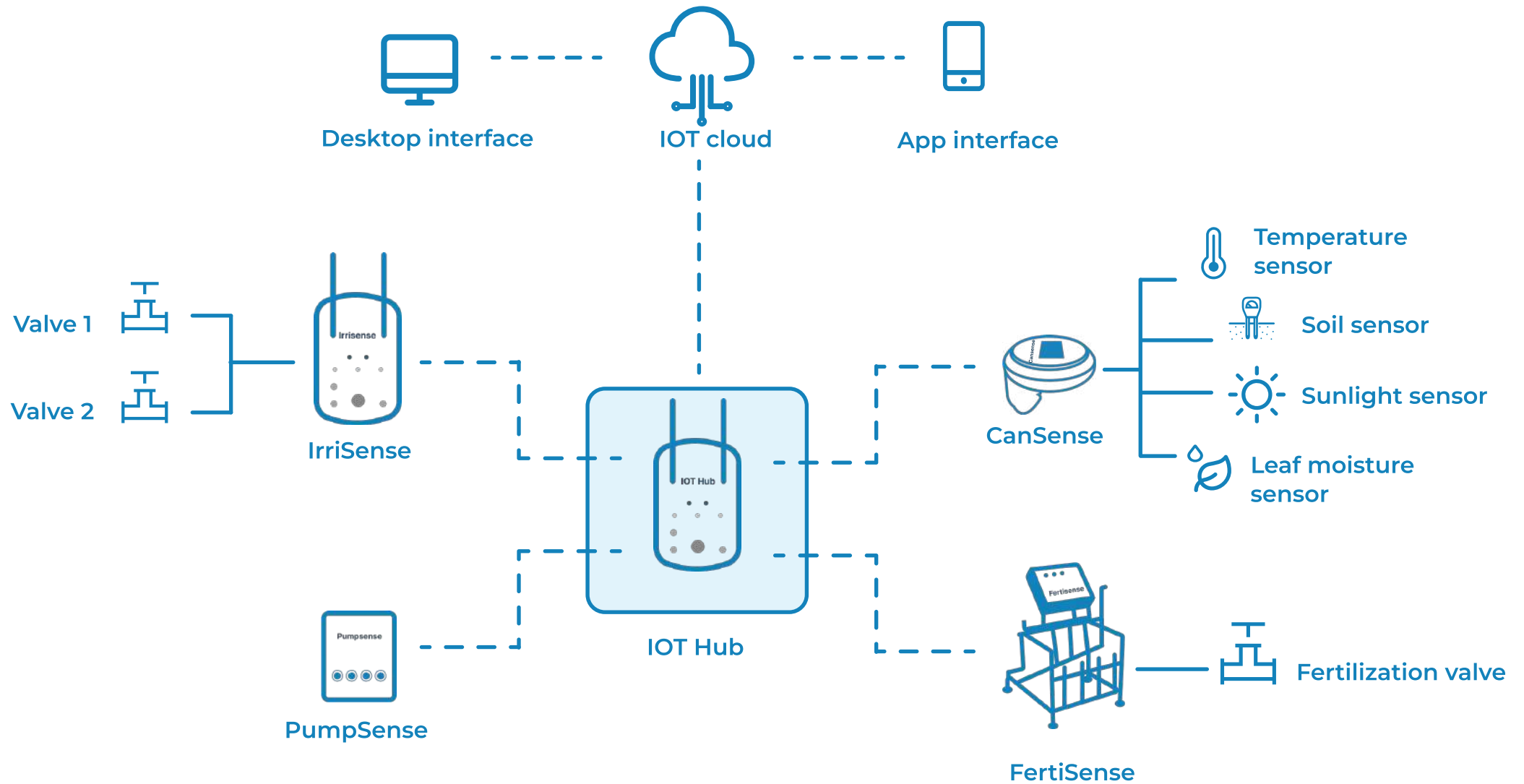
AUTOFARM®

AutoFarm® is dedicated to transforming India into a global agricultural superpower within the next decade. With Indian agriculture set to play a strategic role in meeting both India's and the world's food and sustainable energy needs, our mission focuses on empowering India's small and marginal farmers. We aim to provide them with world-class farming tools—both digital and mechanical—at affordable prices.

To achieve these sustainable goals, IndusTill introduces AutoFarm, a revolutionary product line designed to transform farming in India. Developed entirely in India, our cutting-edge farm automation tools under the AutoFarm brand will accelerate the transition towards digital agriculture, paving the way for a more efficient and prosperous agricultural sector.



WORKFLOW INFOGRAPHIC



IoT Hub®



1 Valve



2 Valve



5 Valve



10 Valve

IoT Hub

FEATURES

- IOTHub® is the master device in the Autofarm automation system managing all the controllers and sensors.
- It connects AutoFarm® Mobile App through 4G internet.
- It creates a LoRa-based local wireless network.
- The IoT Hub implements irrigation schedules, controls irrigation and fertigation processes, and connects to solenoid valves for full automation



SPECIFICATIONS

- **Power Source**
Solar
- **Battery Backup**
48 Hours
- **No. of Valve Connections**
1 or 2 or 5 or 10
- **Input Voltage**
24V DC Solar
- **Output Voltage**
24V DC
- **Communication Interface**
4G, LoRa, Bluetooth
- **Power Source (Optional)**
Electric through Adapter



4G internet



Wireless

Solar
Powered



IrriSense®



1 Valve



2 Valve



5 Valve



10 Valve

FEATURES

- IrriSense® is a state-of-the-art wireless modular irrigation valve controller that efficiently manages the irrigation process by opening and closing valves.
- It connects to the AutoFarm® Mobile App via the IoT Hub® through LoRa, communicating seamlessly.
- IrriSense® is essential for irrigation systems with valves in multiple locations.



SPECIFICATIONS

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Solar
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Electric through Adapter



4G internet



Wireless



Solar
Powered

IRRISENSE



CanSense®



FEATURES

- CanSense® is a wireless sensor monitoring soil moisture, soil EC, soil temperature, sunlight, air temperature, air humidity, and leaf wetness.
- It provides timely irrigation alerts and predicts diseases like Downy Mildew and Powdery Mildew.
- CanSense® records data every 15 minutes and operates on solar power with a built-in battery.
- Each unit covers a 2-acre plot, and additional units can be added for larger areas.



SPECIFICATIONS

- **Temperature:**
Range: -40°C to 90°C
Accuracy: $\pm 0.3^{\circ}\text{C}$
- **Humidity:**
Range: 0 – 99% RH
Accuracy: $\pm 2\%$ RH
- **Sunlight:**
Range: 0-65500 lux
Accuracy: $\pm 0.2\%$
- **Leaf Wetness:**
Output: binary(Wet or Dry)
- **Soil Temperature:**
Range: -40°C to 90°C
Accuracy: $\pm 0.5^{\circ}\text{C}$
- **Soil Moisture:**
Range: 0-65% VWC
Accuracy: $\pm 3\%$ VWC
- **Soil EC:**
Range: 0-30 S/m
Accuracy: $\pm 5\%$

CANSENSE



Wireless

FertiSense®



FEATURES

- FertiSense® is an advanced wireless fertigation controller designed to automate and enhance the efficiency of fertigation systems.
- It precisely injects a controlled amount of fertilizers into the irrigation pipeline, streamlining the fertigation process to ensure optimal nutrient delivery.
- FertiSense® communicates seamlessly with an IoT Hub® over a wireless network, allowing it to receive and execute real-time commands for flexible, responsive operation.



SPECIFICATIONS

- **Pump Types:**
1HP/2HP 230V Multistage pump
- **No. of Tanks:**
1-5 Tanks
- **Flow Rate:**
200 to 100 LPH flow rate
- **Operating Pressure:**
1.5 kg/cm² pressure
- **Connectivity:**
LoRa, WiFi, Bluetooth.

FERTISENSE



Wireless



PumpSense®



FEATURES

- PumpSense® is an advanced wireless pump controller that initiates and halts the pump to manage the irrigation process efficiently.
- It connects to the AutoFarm® Mobile App via the IoT Hub® through LoRa, receiving commands to ensure seamless operation.
- PumpSense® is equipped with various safety systems, including dry run protection, overload protection, and over-voltage protection, providing robust security and reliability for your irrigation system.
- A custom PumpSense® for solar water pumps is also available.

SPECIFICATIONS

- **No. of Pump Connections:**
1
- **Pump Power:**
1-25 HP
- **Communication Interface:**
LoRa, WiFi, Bluetooth
- **Input Voltage:**
Single Phase (230v)
Two Phase (440v)
Three Phase (440v)
Solar (24V DC)



Wireless

PUMPSENSE

Valve



IRRIGATION
VALVE



FERTIGATION
VALVE



BACKWASH
VALVE



PRESSURE
SUSTAIN VALVE



PRESSURE
RELIEF VALVE

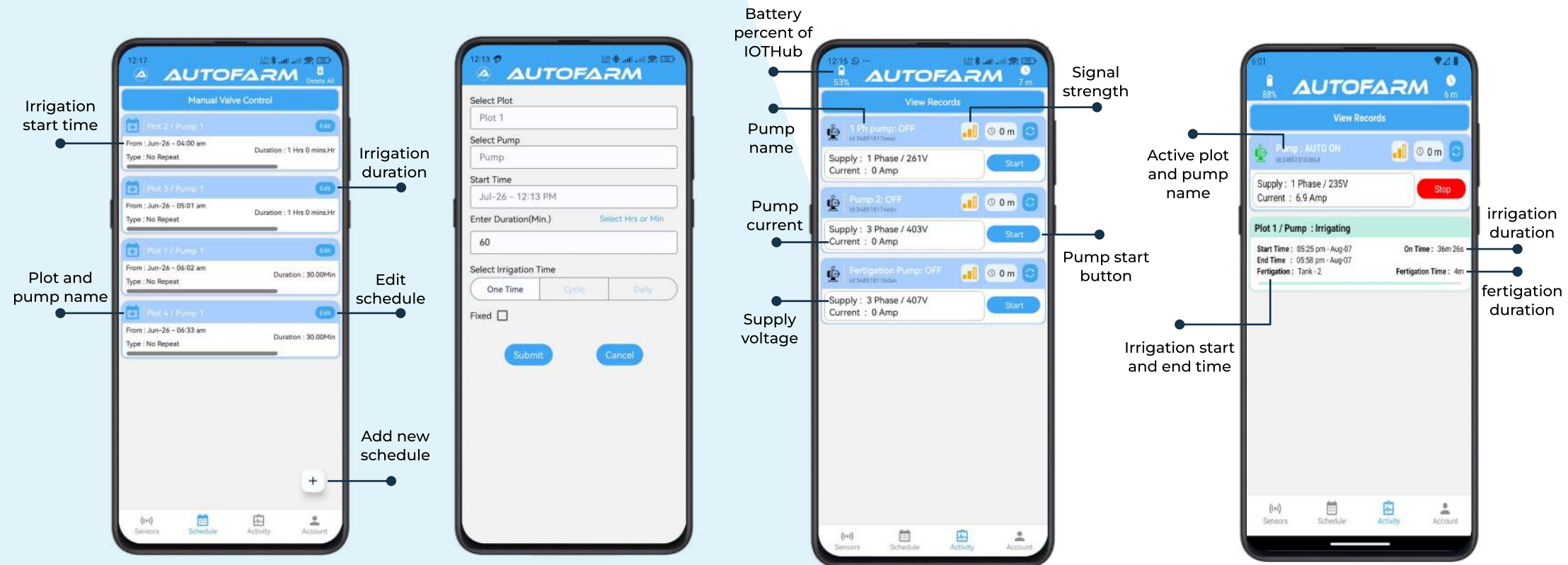
FEATURES

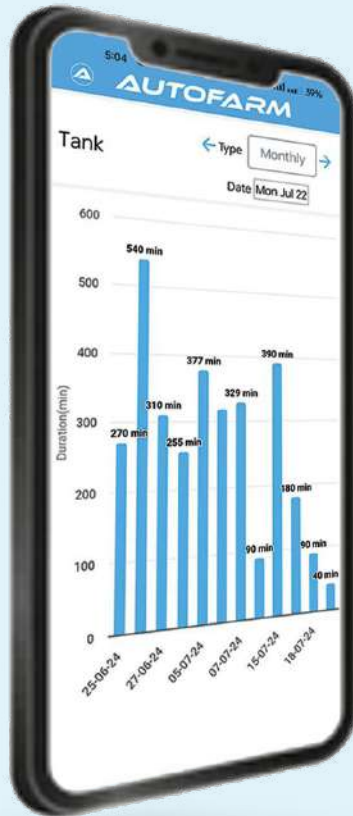
- Solenoid valves are hydraulically operated and diaphragm actuated control units which, when electrically energized or de-energized, either start or stop the flow in a pipeline.
- The actuator is an electromagnet or small electric motor.
- A DC or AC energizing pulse is required to build up magnetic field which pulls a plunger or pivoted armature against the action of a spring.
- Types of valves that we use Irrigation solenoid valves, Backwash valve, Fertigation valve, Pressure relief valve, Pressure sustain valve

SPECIFICATIONS

- **Sizes**
2", 2.5", 3", 4"
- **Pulse Type:**
DC

MOBILE APP

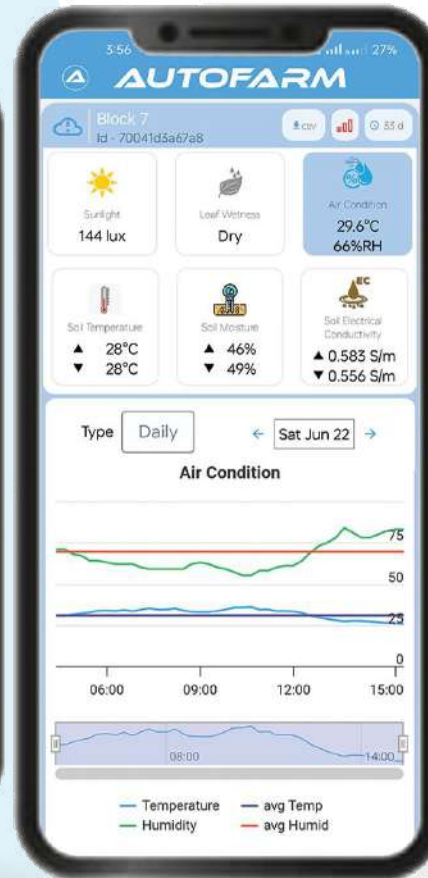




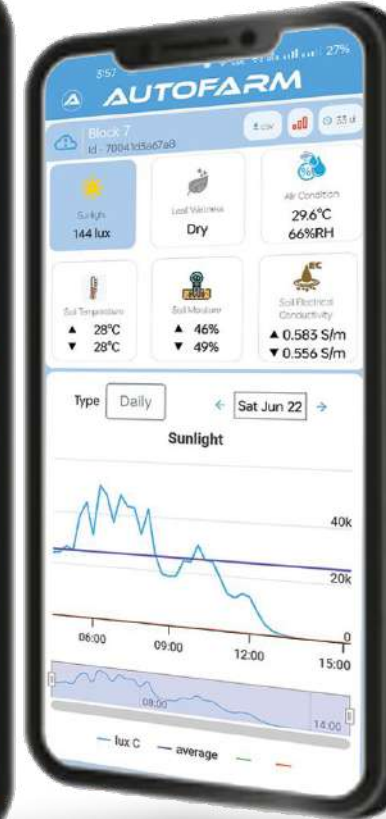
IRRIGATION
RECORDS



SENSOR LIST



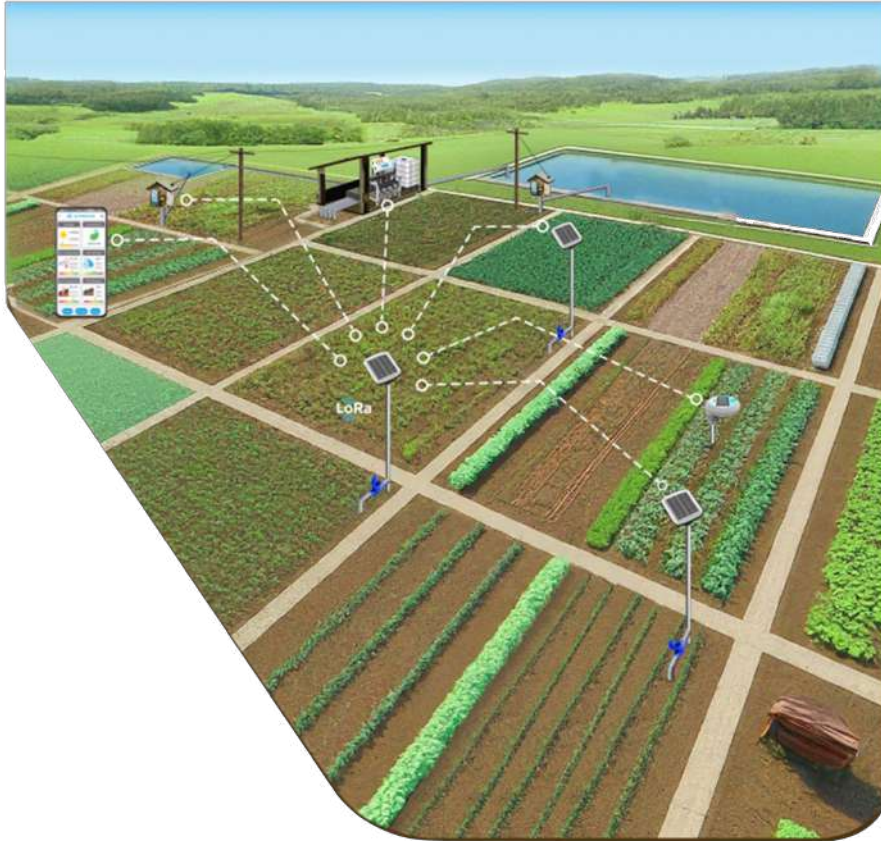
TEMPERATURE
HUMIDITY



SUNLIGHT
SENSOR



SOIL MOISTURE
SENSOR

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