



INTEGRATED SMART IRRIGATION & FERTIGATION MANAGEMENT SYSTEM

வாயர்லெஸ் ஸ்மார்ட் நீர்ப்பாசன தொழில்நுட்பத்தில் முன்னோடி

वायरलेस स्मार्ट सिंचाई में अग्रणी

వైర్లెస్ సాఫ్ట్ సాగునీటి రంగంలో మార్గదర్శకుడు

ವೈರ್ಲೆಸ್ ಸ್ಮಾರ್ಟ್ ನೀರಾವರಿಯಲ್ಲಿ ಪ್ರವರ್ತಕರು

வாயர்லெஸ் ஸ்மார்ட் ஜலசேചനത്തിലെ முൻഗாமி

وائریس سمارٹ آبیائی میں سرخیل

A Pioneer in wireless smart irrigation

वायरलेस स्मार्ट सिंचनातील अग्रदूत

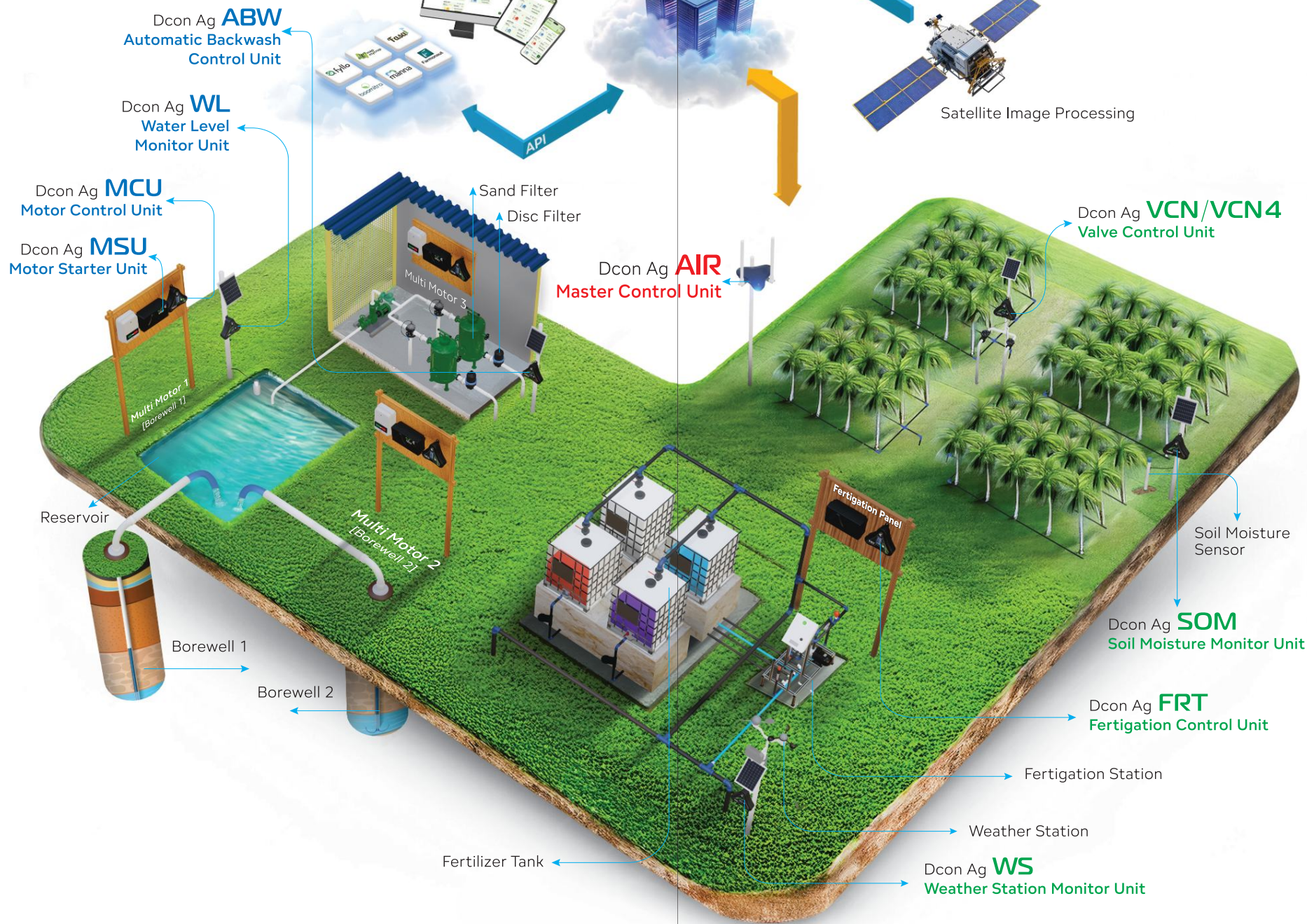
ওয়ারলেস স্মার্ট সেচ ব্যবস্থায় অগ্রগামী



Product Catalogue

Version 2.1





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Mobitech Wireless Solution Pvt Ltd is a leading smart irrigation company in India dedicated to transforming agriculture through advanced IoT based irrigation automation solutions. Through our innovative technology, **we help farmers improve productivity, reduce water usage, and simplify farm operations.**

Our Expertise

As a leading smart irrigation company in India, we specialize in **IoT based agricultural solutions** including sensor based and weather based irrigation systems, greenhouse automation, and community irrigation projects.

Innovation

Our Innovation Is Changing Fields Across India

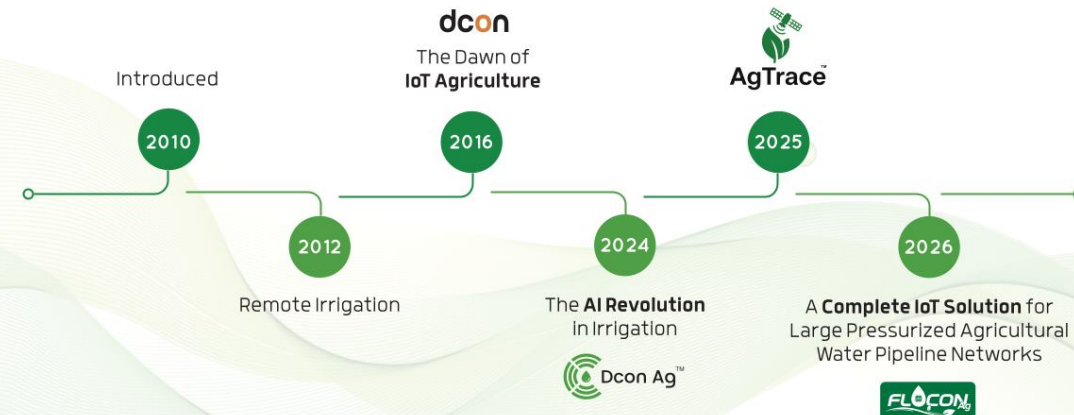
141+
MILLION
HECTARES
Cultivated

11+
MILLION
HECTARES
under Micro Irrigation

3,05,078 +
Active users

9,58,789
(Hectares)
Land area covered

Our Journey



Who we are

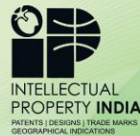
Our Presence Across World

Globalizing Indian Innovation

Started capturing overseas markets including **Malaysia, Thailand, Australia, Turkey, Indonesia, Brazil, Sri Lanka and the Middle East**, taking Indian innovation global.



Our Certifications



Cellphone Motor Starter

CONTROL & MANAGE PUMPSETS THROUGH YOUR SMART PHONE



MI NEO



MI FLEX



MI PRO

Controls upto **1 Pumpset**

Comes with a **Mobile & Web APP**

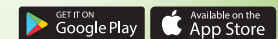
Control Via Missed Call (**ON | OFF**)

Power Protection

Supports upto **10 users**



Available on



M1 NEO

Control Your Motor from Anytime, Anywhere



- * 1 Sim
- * 1 Pumpset
- * Compatible in 1Ph & 3Ph

The **M1 NEO Cell Phone Motor Starter** Controller is designed for farmers who need reliable and easy irrigation automation. Operate your pump remotely through the mobile app or a missed call, save time, reduce field visits, and ensure efficient water management.



GSM Communication
Support



Pump
Protection



Missed Call
ON/OFF Control



Mobile App & Web
Application Control



Advanced
Timer Functions

M1 NEO

Control Your Motor from Anytime, Anywhere

Compatible with



FEATURE HIGHLIGHTS

- Control your motor remotely using the **Mobile App** or a **missed call**.
- Automate Irrigation with **Auto Mode** and flexible timer scheduling options.
- **Access 7 days of operation logs** for better tracking and analysis.
- Protect your pumpset with **Dry Run**, **Overload**, and **1Ph Protection**.
- Monitor pumpset status, current, and voltage in real time.
- Receive instant feedback on motor and network status.
- Ensure reliable operation with battery backup support.
- Stay up to date with Over the Air (**FOTA**) **firmware** updates.

TECHNICAL SPECIFICATIONS



Status Indicators:
LED Indicators



CT Coil Support:
Up to **50A (Default)**



Dry Run Protection:
Current Based



Communication:
5G/LTE GSM Network



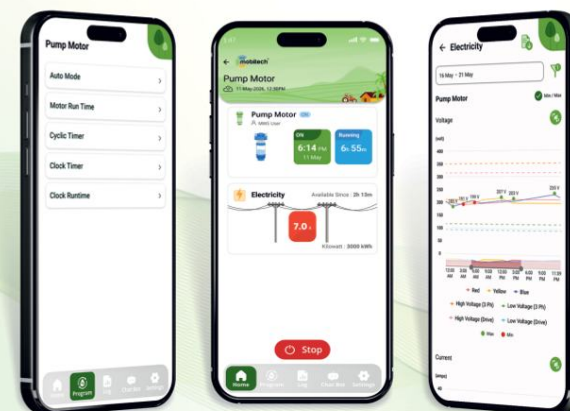
Phase Compatibility:
1Ph & 3Ph



Current, Voltage Monitoring: **Yes**



Data Backup:
7 Days Log Storage



M1 FLEX

Smart Control. Maximum Flexibility



- * 1 Sim
- * 1 Pumpset
- * Compatible in 1Ph & 3Ph

The **FLEX Smart Irrigation Controller** is designed for farmers who need advanced automation, intelligent scheduling, and complete control over their irrigation system. Manage multiple irrigation requirements with ease while **saving water, electricity, and labor**.



GSM Communication Support



Pump Protection



Missed Call ON/OFF Control



Mobile App & Web Application Control



Advanced Timer Functions

M1 FLEX

Smart Control. Maximum Flexibility

Compatible with



FEATURE HIGHLIGHTS

- Control your motor from anywhere using the **Mobile App**.
- Automate irrigation with advanced **timer** and **program** settings.
- **Save water** and **electricity** through smart irrigation management.
- Reduce manual intervention and labor costs.
- Monitor pumpset performance in real time.
- Protect your pumpset with **Dry Run**, **Overload**, and **Voltage Protection**.
- Receive instant alerts and status notifications.
- Improve crop health with timely and consistent irrigation.
- Access your farm **anytime, anywhere** with complete peace of mind.

TECHNICAL SPECIFICATIONS

- ⚡ Operating Voltage:
180V – 440V
- 📶 Communication:
5G/LTE GSM Network
- 📁 Data Log Storage:
30 Days Historical Records

- ⌚ Timer Programs:
Up to **20+** Programmable Schedules
- ⌚ pumpset Control Capacity:
Up to **0.5HP to 300HP**
- 💾 Backup Memory Retention:
Up to 12 Months



M1 PRO

Advanced Motor Automation For Modern Farms



- * 1 Sim
- * 1 Pumpset
- * Compatible in 1Ph & 3Ph

The **Dcon Ag M1 Pro**. The irrigation motor controller enables farmers to operate and monitor their irrigation motor remotely through a mobile app, regardless of farm size. It offers flexible scheduling, real time monitoring, and advanced safety protections- delivering reliable, automated irrigation to make **farming easier, safer, and more efficient**.



Remote Mobile
Control



Smart
Automation



Timer
Modes



sensor
Integration



Inbuilt SIM
Connectivity

M1 PRO

Advanced Motor Automation For Modern Farms

Compatible with



FEATURE HIGHLIGHTS



Remote Mobile Control

Operate and monitor the irrigation motor anytime using a mobile application.



Smart Automation & Sensors

Supports cycle, clock, run, and auto timer modes with tank level, pressure, and flow sensor integration.



Advanced Safety Protection

Built-in dry run, low voltage, and high voltage protection for secure and uninterrupted operation.

TECHNICAL SPECIFICATIONS



Timer Modes: Cycle, Clock, Run & Auto



Connectivity: Inbuilt SIM card



Sensor Support: Tank level sensor,
Pressure sensor, Flow sensor



Protection Features: Dry run, Low
voltage, High voltage protection

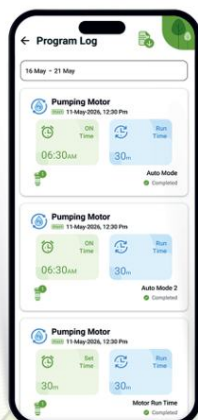
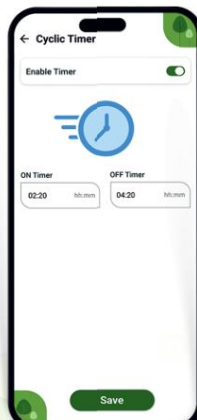
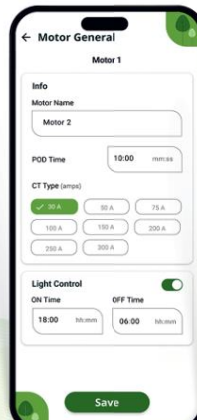
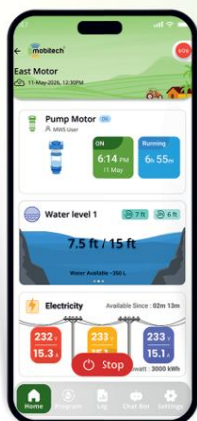
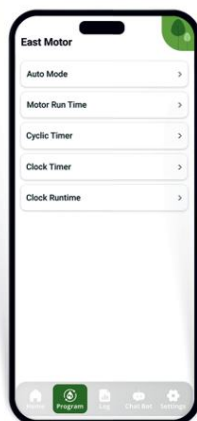
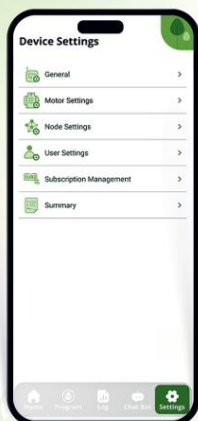


Onboard Display: Yes





SCAN FOR APP



Features		M1 PRO	M1 FLEX	M1 NEO
Connectivity & Technology	GSM Communication Support	✓	✓	✓
	WIFI Connectivity	✓		
	Bluetooth Connectivity	✓		
	GPS	✓		
Pump Protection Features	Single Phase Protection	✓	✓	✓
	Current Based Dry Run Protection	✓	✓	✓
	Overload Protection	✓	✓	✓
	Low and High Voltage Protection	✓	✓	
	Current Imbalance Protection	✓	✓	
	Dry Run Resume Delay	✓	✓	✓
	Voltage Resume Delay	✓	✓	
Functional Features	DOL Starter Compatibility	✓	✓	✓
	Star Delta Starter Compatibility	✓	✓	✓
	Light Control Compatibility	✓		
	Emergency Shutdown Relay	✓		
	Pump Drive Control (VFD ON-OFF Control)	✓	✓	✓
Electrical Parameter	Voltage Sensing Capability	✓	✓	
	Voltage Phase Monitoring	1 Ph & 3 Ph	1 Ph & 3 Ph	
	Battery Backup Support	✓	✓	✓
	Current Sensing Capability	✓	✓	✓
	Current Phase Monitoring	1 Ph & 3 Ph	1 Ph & 3 Ph	1 Ph & 3 Ph
	Default CT Coil Range	Upto 50A	Upto 50A	Upto 50A
	External CT Coil Support	Upto 500A		
	Power Factor Measurement	✓		
	Power Consumption (KW)	✓		
	Voltage & Current Monitoring Display	✓		

Comparison of Cellphone motor Starter controllers

Features		M1 PRO	M1 FLEX	M1 NEO
Timer Controls	Auto Mode	✓	✓	✓
	Motor Run Time	✓	✓	✓
	Cyclic Timer	✓	✓	✓
	Clock Timer	Max 10 Timers	Max 2 Timers	Max 2 Timers
	Clock Run Timer	Max 10 Timers	Max 2 Timers	Max 2 Timers
Sensor Integration	Pressure Sensor	✓		
	Flow Meter	✓		
	Water Level Sensor	✓		
Display	Display Indication	✓		
	LED Indication(Network and Motor Feedback)	✓	✓	✓
Remote Control & User Interface	Mobile & Web Application Control	✓	✓	✓
	Missed Call ON/OFF Control	✓*	✓*	✓*
Data Log & Backup	Log Backup Duration	30 Days	7 Days	7 Days
Firmware Update	FOTA	✓	✓	✓

* - To use this feature, the customer needs to provide a **SIM card**.

Micro Irrigation automation [Drip & Sprinkler]

THE COMPLETE IRRIGATION AUTOMATION MANAGEMENT SYSTEM



DconAg SMART
1 Pumpset + 64 Valves
Suitable for
Medium Scale Farms



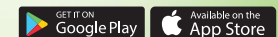
DconAg AIR
10 Pumpsets + 512 Valves
Suitable for
Large Scale Farms



TCON series
1 Pumpset + 5 Valves / 12 Valves
Suitable for
Small Scale Farms

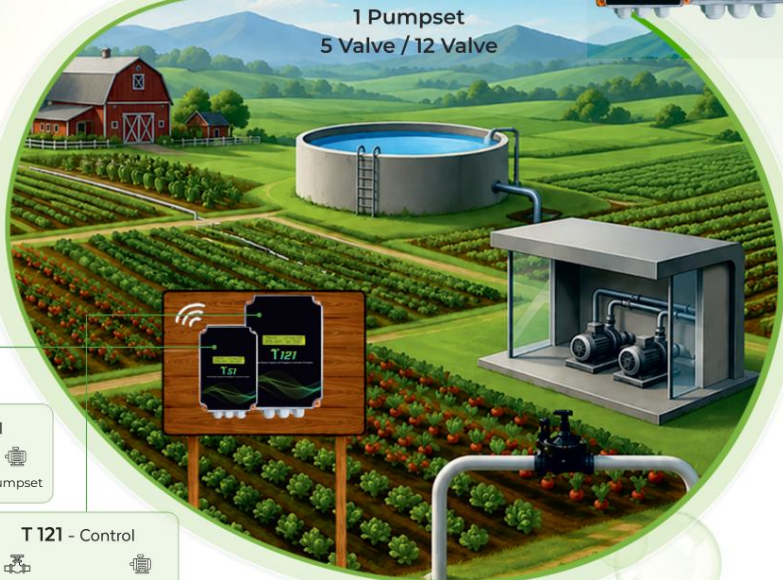


Available on



TCON

Timer Based Irrigation Controller (Wired)



TCON is an ideal solution for **small scale farms** designed to automate irrigation with precision and ease. It is a time based cellphone motor starter that supports wired drip and sprinkler irrigation systems and includes a built in fertigation timer for efficient nutrient management.



Multi Valve Management



Pumpset Automation



Precision Irrigation



Bluetooth Connectivity



Durable & Reliable

TCON

Timer Based Irrigation Controller (Wired)

Compatible with



FEATURE HIGHLIGHTS



Automatic Pump & Valve Control
Fully automated irrigation cycles



Multiple Timer Modes
Cyclic, Clock & Fertigation scheduling



Built-in Fertigation
Nutrient dosing with irrigation



Advanced Protection
Dry run & pressure safety features

TECHNICAL SPECIFICATIONS



Power Source: AC (Alternating Current)



Rain Detection: Yes



Fertigation: Inbuilt fertigation timer



Voltage: 230V AC 50Hz



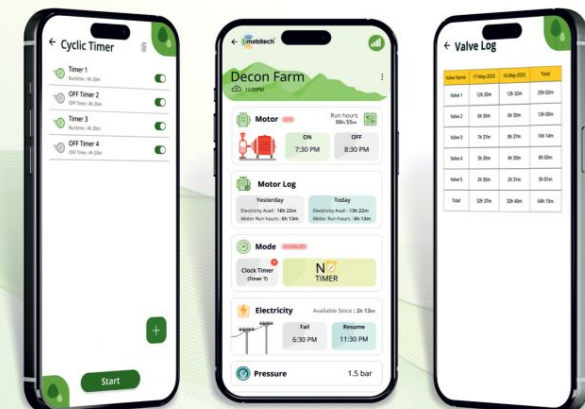
Communication (Additional) : Wi-Fi



Cloud Control: Yes (if Wi-fi enable)



Display: Onboard screen for easy setup



Dcon Ag SMART

Drip Irrigation / Sprinkler Irrigation Automation (Wired / Wireless)

The system connects to **pumps, solenoid valves, and field sensors** to automate drip or sprinkler irrigation. It also works with soil moisture sensors, weather stations, auto backwash systems, fertigation units, and water level sensors for smart irrigation control. Using real time data or set schedules, it automatically operates pumps and valves for accurate water and nutrient supply. The entire system can be monitored and controlled anytime, anywhere through a **mobile app**.



One
Pumpset



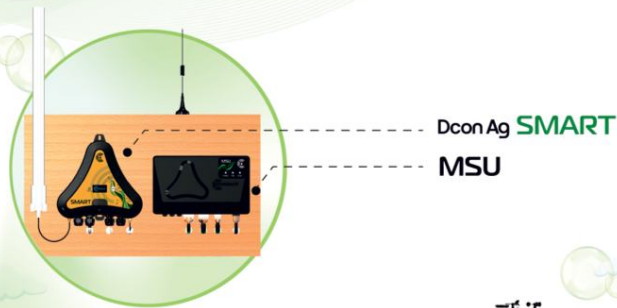
One
SIM Card



64
Valves



Satellite
Based Irrigation



Dcon Ag SMART
MSU



Dcon Ag SMART

Drip Irrigation / Sprinkler Irrigation Automation (Wired / Wireless)

Compatible with



FEATURE HIGHLIGHTS

- Designed for small to medium-sized farmlands.
- Controls up to **64 solenoid valves**.
- Operates via mobile app with **Wifi, Bluetooth & GSM**.
- Connects to sensors, pumps, and valves for smart irrigation.
- **Soil Moisture Based** - Automatically controls irrigation based on soil moisture levels.
- **Weather Based** - Adjusts irrigation according to real-time weather conditions.
- **Flow Based** - Monitors water flow to ensure proper distribution and detect issues.
- **Pressure Based** - Maintains optimal pressure and identifies pipeline problems.

TECHNICAL SPECIFICATIONS



Supports **1 SIM, 1 Pump Set**



Power source : **AC & Solar**



Backup Time : **18 Hours**



Compatibility : **Suitable for all medium farms**



Communication : **Wifi, Bluetooth**



Internal Storage : **1 Year Log**



Cloud Control : **Yes**



Display : **Onboard screen for easy setup**



Inbuilt GPS : **Yes**



Dcon Ag AIR

Master Control Unit

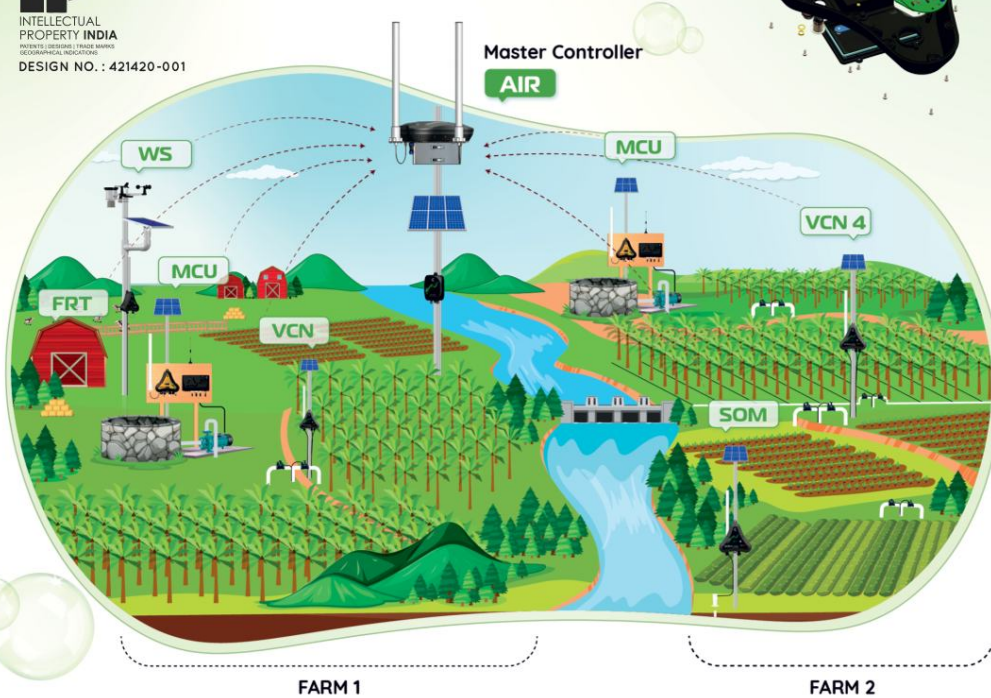


INTELLECTUAL
PROPERTY INDIA
PATENTS (LOGO) / TRADE MARKS
(COMMERCIAL INDICATORS)
DESIGN NO. : 421420-001

Wi-Fi Bluetooth IP65



Master Controller
AIR



The **Dcon Ag AIR** unit operates, monitors, and manages multiple agricultural processes like **pumpsets, fertigation, solenoid valve control, weather stations, soil moisture**, and reservoir water level. It can handle various Input and output combinations. Mesh network technology links field units, with one unit acting as a bridge to the cloud, with **dual channel LoRa**.



Control Upto
10 Pumpsets



Control & Manage
upto 512 Valves

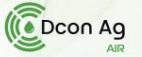


Satellite
Based Irrigation

Dcon Ag AIR

Master Control Unit

Compatible with



FEATURE HIGHLIGHTS



24/7 Solar Operation

Solar-powered with 72-hour backup.



Remote Cloud Connectivity

Real-time monitoring via 5G/LTE cloud access.



Dual LoRa Communication

Dedicated channels for pump and field control.



Rugged & Scalable Design

IP65-rated, supports 10 motors and multiple connections.



Patented Smart Technology

Cloud-enabled updates for modern farm management.

TECHNICAL SPECIFICATIONS



Solar Panel: 12.5V/40W



Battery Bank: 7.4V/ 15Ah



Internal battery: 3.7V/15Ah



Backup time: 72 hours



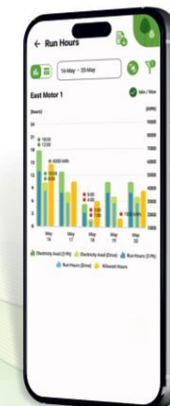
Cloud communication: GSM/Wifi/LTE



Local Communication: LoRA (2 band) & Bluetooth 5.0



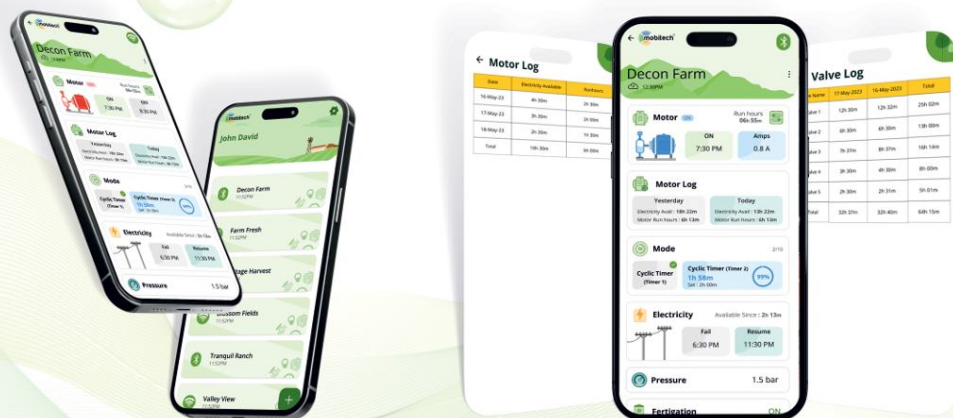
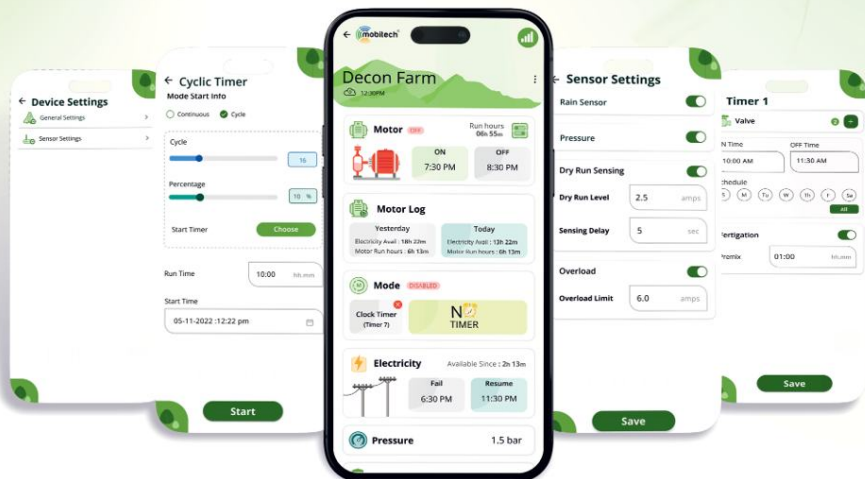
Internal Storage: 1 Year Log Inbuilt GPS



TCON



SCAN FOR APP



Dcon Ag SMART



SCAN FOR APP



Dcon Ag **AIR**

SCAN FOR APP



Features	Dcon Ag AIR	Dcon Ag SMART	TCON 51 & TCON 121
Pump Control Capability	10	1	1
Pump Relay Capability	✓	✓	✓
DOL & Star Delta Starter Compatibility	✓	✓	✓
Pump Drive Control(VFD)	✓	✓	✓
Valve Control Capacity	512 (Wired,Wireless)	64 (Wired,Wireless)	5 & 12 (Wired)
Maximum Parallel Valve Control	20	10	2
Pressure Release Valve Compatibility	✓	✓	✓
Auto Backwash Compatibility	✓	✓	
Auto Backwash Support Capacity	10	1	
Time Based Auto Backwash	✓	✓	
Pressure Based Auto Backwash	✓	✓	
Auto Refill Irrigation Water Source	✓		
Borewell Refill Motor Control	✓		
Main Valve Actuation	✓		
AC Solenoid Coil Voltage	24V AC	24V AC	24V AC
AC Solenoid Coil Current	100 - 400mA	100 - 400mA	100 - 400mA
DC Solenoid Coil Voltage	9-12V DC	9-12V DC	
DC Solenoid Coil Watt	2-4W	2-4W	
Water Level Control Capability	✓	✓	
No of Water Level Control Points	10	1	
Soil Moisture Monitoring	✓	✓	
Soil Moisture Sensor Integration Capacity	512	64	
Weather Monitoring	✓	✓	
Weather Station Integration Capacity	10	1	
Rain Detection	✓ (Quantify)	✓ (Quantify)	✓ (Detection)
Wind Speed Monitoring	✓	✓	
Wind Direction Monitoring	✓	✓	
Temperature & Humidity Monitoring	✓	✓	
(LUX) & UV Radiation Monitoring	✓	✓	
Atmospheric Pressure Monitoring	✓	✓	
Weather Forecast Integration	✓	✓	
Weather Forecast Duration	5	5	

Comparison of Micro irrigation automation controllers

Features		Dcon Ag AIR	Dcon Ag SMART	TCON 51 & TCON 121
Functional Features	Multi Schedule Irrigation Control	✓*		
	Geospatial Valve Mapping	✓	✓	
	Realtime Pump & Valve Status Mapping	✓	✓	
	Fogger & Fan Control Support	✓	✓	
Pump Protection Features	Single Phase Protection	✓	✓	
	Current Based Dry Run Protection	✓	✓	✓
	Flow Based Dry Run Protection	✓	✓	
	Overload Protection	✓	✓	
	Low and High Voltage Protection	✓	✓	
	Current Imbalance Protection	✓	✓	
	Dry Run Resume Delay	✓	✓	
	Voltage Resume Delay	✓	✓	
	AC Solenoid Coil Current	✓	✓	
Connectivity & Technology	IoT Connectivity	✓	✓	
	Remote Access Capability	✓	✓	
	GSM Communication Support	✓	✓	
	WIFI Connectivity	✓	✓	✓
	Bluetooth Connectivity	✓	✓	✓
	LoRa Connectivity	✓	✓	
	LoRa Channel Capacity	Multiple	Single	
	LoRa Node Capacity	256	32	
	GSM Node Capacity	10		
	LoRa Range Extension	✓		
	Wireless Range Support	Upto 3 kms	Upto 1 kms	
	AI Integration Support	✓	✓	
Electrical Parameter	Power Source Type	AC & Solar	AC & Solar	
	Voltage Sensing Capability	✓	✓	
	Phase Monitoring	1Ph & 3Ph	1Ph & 3Ph	1Ph & 3Ph
	Battery Backup Support	✓	✓	
	Backup Duration Time	72 Hrs	18 Hrs	
	Current Sensing Capability	✓	✓	✓

Comparison of Micro irrigation automation controllers

Features		Dcon Ag AIR	Dcon Ag SMART	TCON 51 & TCON 121
Electrical Parameter	Power Factor Measurement	✓	✓	
	Power Consumption(KW)	✓	✓	
	Voltage & Current Monitoring Display	✓	✓	
Irrigation & Fertigation Timer Controls	Cyclic Timer	✓	✓	✓
	Cyclic Timer With Fertigation	✓	✓	✓
	Cyclic Volume Control	✓	✓	
	Cyclic Volume With Fertigation	✓	✓	
	Clock Based Timer	✓	✓	✓
	Clock Run Timer Control	✓	✓	
	Clock Run Timer With Fertigation Control	✓	✓	
	Calender Based Clock Timer	✓	✓	
	Calender Based Clock Run Timer	✓	✓	
	Calender Based Clock Run Timer With Fertigation	✓	✓	
	Soil Moisture Irrigation Control	✓	✓	
	Rainfall Based irrigation Control	✓	✓	
	Soil Moisture Triggered Cyclic Timer	✓	✓	
	Soil Moisture triggered Cyclic Volume Control	✓	✓	
	Irrigation Flushing Mode	✓	✓	
Fertigation	Fertigation Management	✓	✓	✓*
	Fertigation Control Capacity	10	1	1
	Fertigation Channel Capacity	30 Channel	5 Channel	
	Tank Integration Capacity	150	5	
	Simultaneous Tank Control Capacity	10	5	
	EC Monitoring	✓	✓	
	EC Control	✓	✓	
	pH Level Monitoring	✓	✓	
	pH Level Control	✓	✓	
	Booster Pump Safety	✓	✓	
Display & Enclosure Ratings	Onboard Display	✓	✓	✓
	Ingress Protection Rating(IP)	IP65	IP65	

* - Simple Fertigation • - Coming Soon

Dcon Ag MCU & MSU

Motor Control Unit & Motor Starter Unit



The **Motor Control Unit (MCU)** is a smart device that automates and manages irrigation motors. It allows farmers to turn motors ON and OFF remotely. The MCU receives control signals and sends them to the **Motor Starter Unit (MSU)**, which then starts or stops the motor. This ensures **safe, reliable, and automated motor operation** without the need to visit the field.



Dry Run



Overload



Phase Failure



Voltage Fluctuations



Power Cut Intimation

Dcon Ag MCU & MSU

Motor Control Unit & Motor Starter Unit

Compatible with



FEATURE HIGHLIGHTS

**Real-Time Pressure Control**

Maintains optimal water flow using live pressure sensor data.

**Single & Three-Phase Support**

Compatible with both single-phase and three-phase pump sets.

**Wide Power Compatibility (0.5-500 HP)**

Supports pump sets across a broad power range for flexible applications.

**Easy Installation & Smart Monitoring**

User-friendly design with advanced communication for reliable control.

**Live Display Monitoring**

Shows real-time electrical data and pump status.

TECHNICAL SPECIFICATIONS



Input Voltage 3 Phase: 360V -450V AC



Input Voltage 1 Phase: 180V -240V AC



Default CT Coil: 50A External CT Upto: 500A



Battery: 3.7V/2.6Ah



Backup time: 6 hours



Communication: LoRA & Bluetooth 5.0



Compatibility: Suitable for All types of starter panel



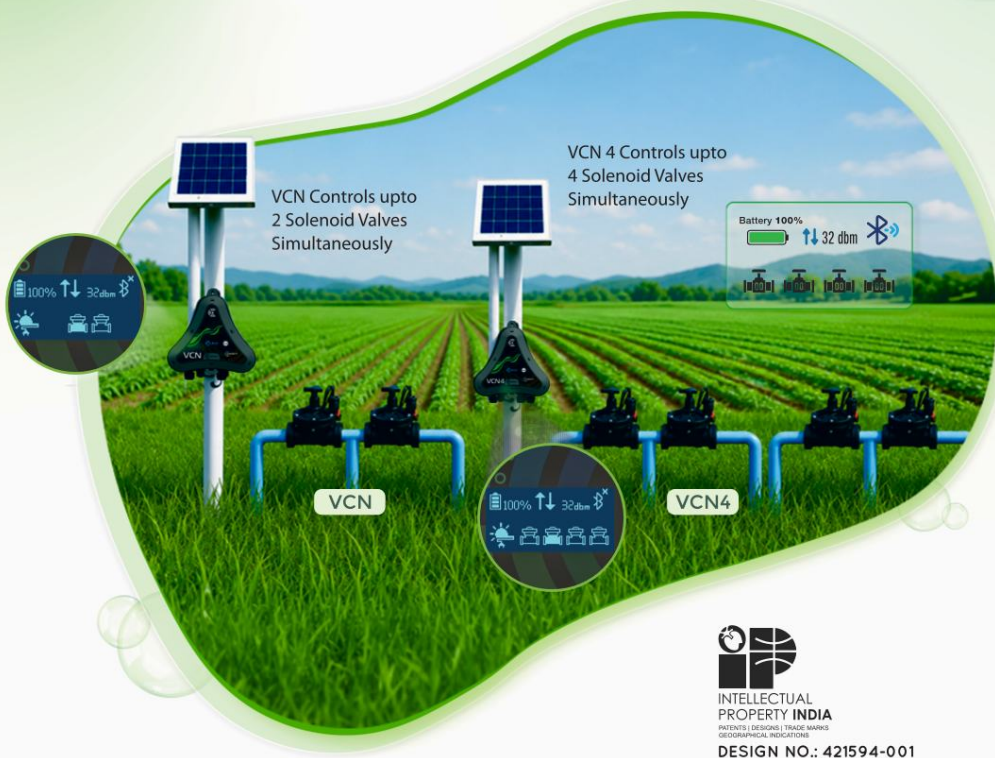
Inbuilt GPS



Node Units

Dcon Ag VCN & VCN4

Wireless Valve Controlling Unit



INTELLECTUAL
PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS
DESIGN NO.: 421594-001

Dcon Ag VCN and VCN4 are wireless slave units that connect to Dcon Ag AIR.

They are designed to independently control DC solenoid valves, with VCN capable of managing 2 valves and VCN4 capable of managing 4 valves, regardless of their sizes.



Solar
Powered



Easy
Interface



Remote
Monitoring



Durable
Design



Data
Analytics

Node Units

Dcon Ag VCN & VCN4

Wireless Valve Controlling Unit

Compatible with



FEATURE HIGHLIGHTS



Real-Time Monitoring (Optional)

flow & pressure inputs for smarter irrigation decisions



IP65 Rugged Enclosure

Weather-proof for harsh farm conditions



Ultra-Low Power Solar Operation

Solar powered with long battery backup



Long-Range Wireless Control

LoRa connectivity linked to central AIR unit



Local Status Display

High-brightness display for valve status

TECHNICAL SPECIFICATIONS



Solar Panel: **9V/ 6W**



Battery: **3.7V/2.6Ah**



Backup time: **72 hours**



Communication:



LoRA & Bluetooth 5.0



Inbuilt GPS



Dcon Ag WL

Water Level Controlling Unit



The Water Level Controlling Unit monitor the water level in wells and borewells and shows it clearly on the controller display. It also supports mobile app monitoring, so users can check the water level anytime from their phone.



Real Time
Monitoring



Automatic
Pump Control



Solar Powered



Mobile Alerts &
Remote Access



Smart Water
Conservation

Dcon Ag WL

Water Level Controlling Unit

Compatible with



FEATURE HIGHLIGHTS



Designed for effective operation in reservoirs up to **100 feet** (31 meters) deep, the system is suitable for a wide range of agricultural and commercial water storage applications.



IP65 protected enclosure ensures durability in harsh environments



Accurate, consistent water level readings, supporting precise irrigation planning, pump control, and effective water resource management.



Corrosion-resistant sensors make the system ideal for hard-water reservoirs, delivering long-term durability and reliability.



Solar-powered, the WL operates continuously, providing uninterrupted monitoring in remote locations without access to electricity.

TECHNICAL SPECIFICATIONS



Solar Panel: **9V/ 6W**



Battery: **3.7V/5.2Ah**



Backup time: **96 hours**



Communication:
LoRA & Bluetooth 5.0

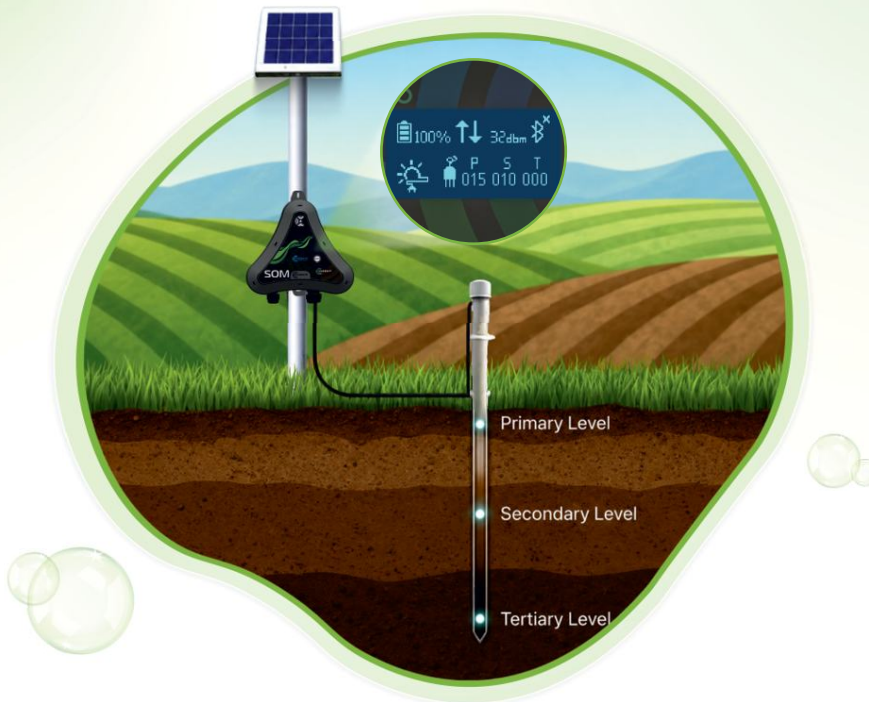


Inbuilt GPS



Dcon Ag **SOM**

Soil Moisture Controlling Unit



The **SOM (Soil Moisture)** Slave Unit provides real-time soil moisture data at three levels – primary, secondary, and tertiary. This accurate information helps farmers manage irrigation efficiently, make timely decisions, and maintain healthy soil, supporting sustainable and modern farming practices.



3-Level
Monitoring



Accurate
Moisture Data



Smarter
Irrigation



Healthier
Soil



LoRA +
Bluetooth 5.0

Dcon Ag **SOM**

Soil Moisture Controlling Unit

Compatible with



FEATURE HIGHLIGHTS



3-Depth Measurement

Tracks moisture across multiple root zones



Instant Data to Dcon Ag

Faster decisions for irrigation planning



Farm-Ready Durability

Reliable in rain, heat, and varying soil conditions



Corrosion-Resistant Sensors

Ideal for hard-water reservoirs, long service life



Precision Agriculture Support

Optimizes water use, improves yields, reduces wastage

TECHNICAL SPECIFICATIONS



Solar Panel: **9V / 6W**



Battery: **37V/2.6Ah**



Backup time: **72 hours**



Communication: **LoRA & Bluetooth 5.0**



Number of Soil Moisture Sensor: **3 Nos**



Inbuilt **GPS**



Dcon Ag **WS**

Weather Station

The **Dcon Ag WS Weather Station** Controller delivers accurate, realtime monitoring of **rainfall, wind speed, temperature and humidity** with automated control for smarter farming. It enhances productivity by improving crop management, yield, and efficient resource utilization. Automated, weather based operations reduce manual effort and costs while enabling informed, proactive decisions to minimize risks.



Dcon Ag **WS**

Weather Station

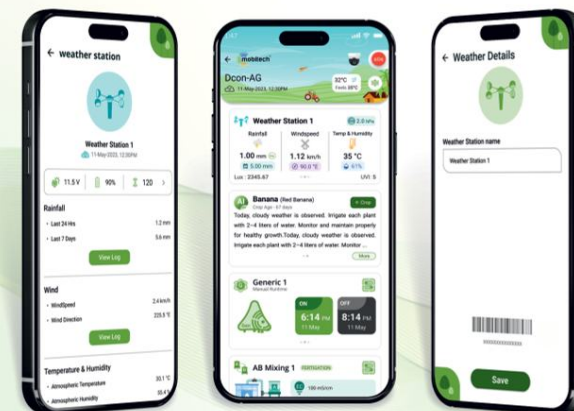
Compatible with



FEATURE HIGHLIGHTS

- The system accurately monitors **wind speed, wind direction, rainfall, temperature, humidity, and air pressure in real time.**
- It helps farmers plan field operations and protect crops from weather-related risks.
- Real-time microclimate data ensures water is applied only when needed, improving irrigation efficiency and crop health.
- **Instant alerts for wind, heat, rain, and frost** help farmers quickly protect their crops.
- **Stored weather data and analytics** help farmers plan better by tracking seasonal trends and forecasting future irrigation needs.

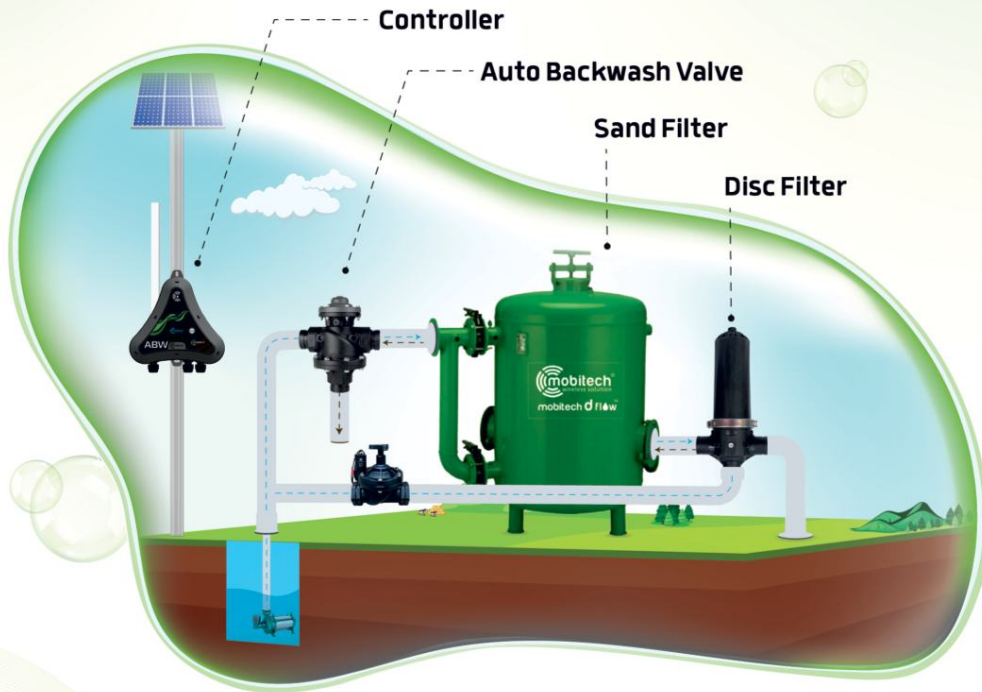
TECHNICAL SPECIFICATIONS

Solar Panel: **9V/6W**Battery: **3.7V/5.2Ah**Backup time: **96 Hours**Communication:
LoRA & Bluetooth 5.0Sensors: **Wind speed, (Anemometer), Wind direction, Rain gauge, Temperature, Humidity, UV, LUX.**

Dcon Ag ABW

Auto Backwash

The **Auto Backwash Valve** is a smart filtration system that keeps your irrigation running smoothly by automatically **removing dirt, sand, and impurities**. It monitors pressure levels and, when they reach a set limit, automatically flushes out debris keeping filters clean and ensuring efficient, uninterrupted operation.



IP65 Dust
& Water Resistant



72 Hours
Battery Backup



Communication
LoRa & Bluetooth 5.0



Accommodating
Diverse Filtration



Download Reports
in Pdf & Excel
Formats

Dcon Ag ABW

Auto Backwash

Compatible with



FEATURE HIGHLIGHTS

- **Dual Power Support (AC & DC)** - Works with both AC and DC power for flexible use in any setup.
- **Smart Pressure Monitoring** - Continuously tracks water pressure to maintain smooth and efficient flow.
- **Automatic Flushing** - Activates self cleaning when pressure reaches a preset level, preventing blockages.
- **Wide Filter Compatibility** - Supports screen, disc, and sand filters for all irrigation needs.
- **Low Maintenance & Cost-Saving** - Self cleaning design reduces manual work, lowers costs, and extends equipment life.

TECHNICAL SPECIFICATIONS



Power : **180-240V AC input** with 12W solar panel and 7.4V battery (up to 72 hours backup).



Connectivity : **LoRa and Bluetooth 5.0** for reliable wireless communication.



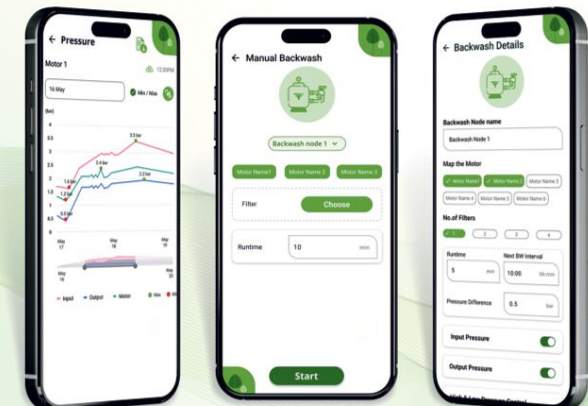
Sensors : **Pulse-type** water flow sensor (optional)
Two pressure sensor inputs (4-20 mA).



Inbuilt GPS



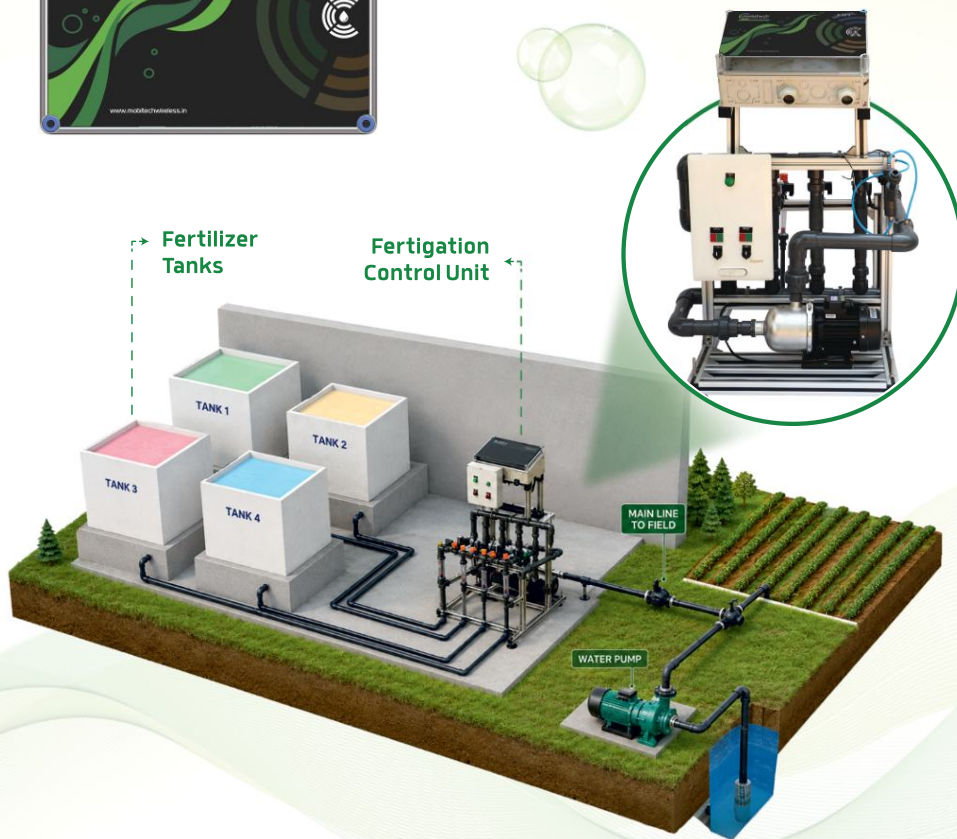
Performance : Designed for **stable, efficient monitoring** and control of irrigation systems.



Dcon Ag FRT

Fertigation Control Unit

The Fertigation unit delivers nutrients to crops through drip irrigation, improving yield while saving water. The **Dcon Ag FRT** unit wirelessly connects to the fertigation controller to enhance irrigation automation. The system can be controlled from a mobile phone anytime, ensuring accurate nutrient dosing, better water management, and efficient farm operations.



Dcon Ag FRT

Fertigation Control Unit

Compatible with



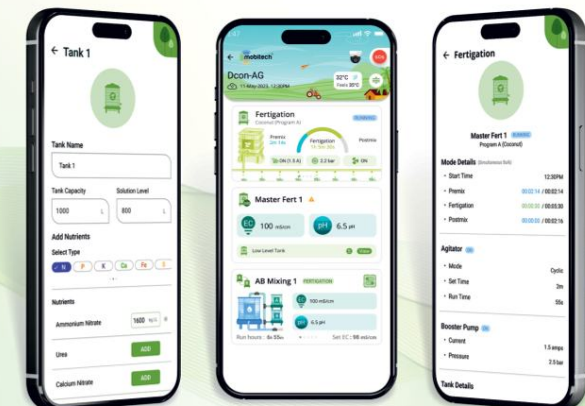
FEATURE HIGHLIGHTS

- **Precision pH and EC Control** Ensures accurate nutrient dosing for healthier crops and improved yield quality.
- **Wide Flow Adaptability** Supports diverse irrigation needs with stable hydraulic performance and quick EC/pH stabilization.
- **Wireless Connectivity** Enables reliable data communication and seamless integration with fertigation controllers.
- **Energy-Efficient Operation** Uses a single pump for nutrient mixing and injection, optimizing water and fertilizer usage.
- **Low Maintenance & Durable Design** Easy to install, minimal upkeep required, and built to withstand harsh agricultural conditions.

TECHNICAL SPECIFICATIONS

- ⚡ Input Voltage: 230V AC / 440V AC
- 🌿 Number of Injectors: Minimum 1, Maximum 30 (Customizable)
- 💧 Injector Capacity: 250 to 1000 liters per hour (LPH)

- ➡ Main Flow Range: 5 to 60 cubic meters per hour (m³/h)
- 📦 Number of Tanks: Customizable based on specific requirements



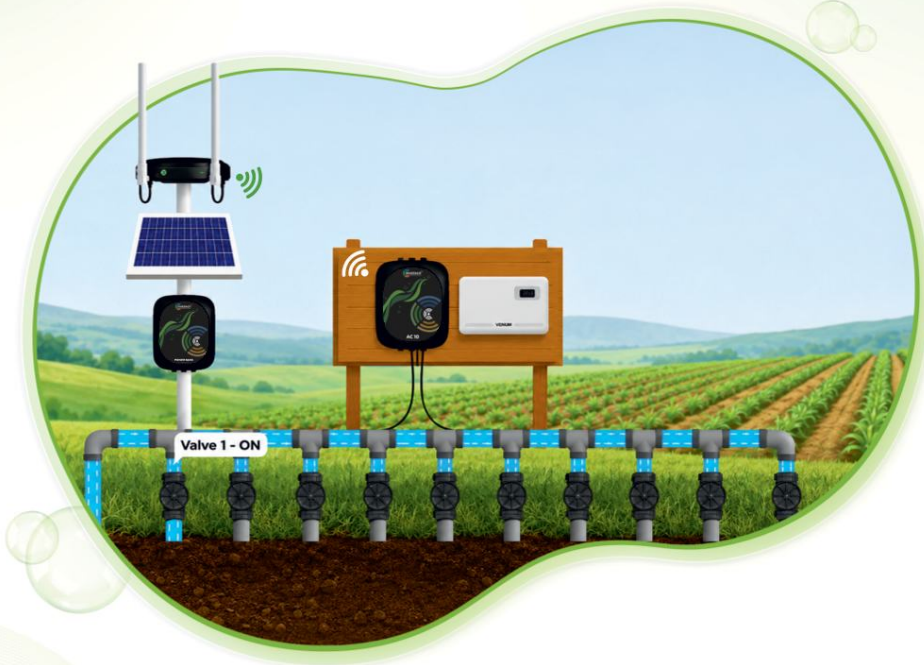
AC10

Wired Irrigation Controller 10 Station

Compatible with



The AC10 Irrigation Controller integrates with **Dcon Ag AIR** and **Dcon Ag SMART** devices to provide reliable irrigation automation. It receives wireless commands and controls solenoid valves through **wired outputs, ensuring accurate, stable, and efficient** irrigation management.



Stable - Accurate
Irrigation Operation



Reduced Manual
Intervention



Improved
Water Efficiency



Suitable for Farms,
Polyhouses & Landscapes

Reliable Solenoid
Valve Control

Solenoid Valves

Automated Water Flow Management.

A solenoid valve is a valve that is controlled by electricity and has a rapid response time. There are two types available: one operates on AC power and the other operates on DC power.



Direct Current (DC)

AVAILABLE SIZES

3/4", 1", 1.5", 2", 2.5", 3" and 4"

OPERATING PRESSURE

1 – 10 Bar

COIL VOLTAGE

9V DC

Alternating Current (AC)

AVAILABLE SIZES

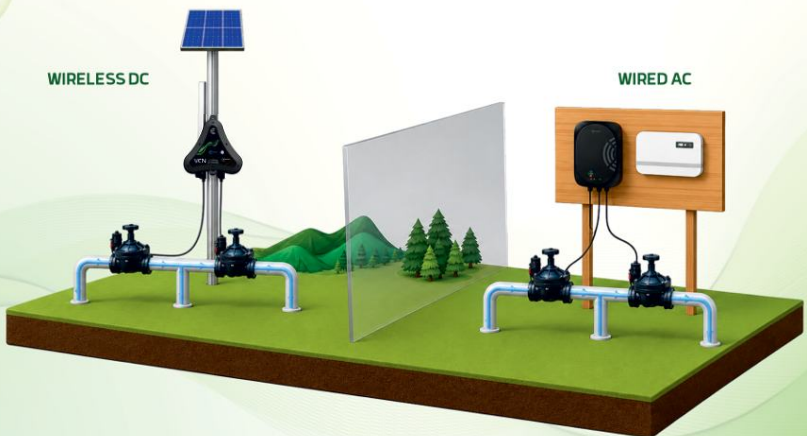
3/4", 1", 1.5", 2", 2.5", 3" and 4"

OPERATING PRESSURE

1 – 10 Bar

COIL VOLTAGE

24V AC



Pressure Relief Valves

Protecting Your System from Excess Pressure.

Pressure Relief Valve (PRV). Protects the irrigation pipeline from excessive pressure by automatically releasing excess water when pressure exceeds the set limit. This helps prevent pipe damage and ensures safe, efficient system operation.

FEATURE HIGHLIGHTS

- It helps to prevent water line from damage due to high pressure.
- Indirectly it helps for even wetting.

TECHNICAL SPECIFICATIONS

- Port Size : 2" to 4"
- Voltage : No Solenoid
- Pressure range : 0.5 to 4 bar



Flow Meter

Measure Every Drop with Precision

It helps to achieve volume based Irrigation. We use **electromagnetic flow meter** and **Turbine type flow meter**.

FEATURE HIGHLIGHTS

- It is highly durable
- It helps to measure quantity of water pumped
- Easy Maintenance

TECHNICAL SPECIFICATIONS

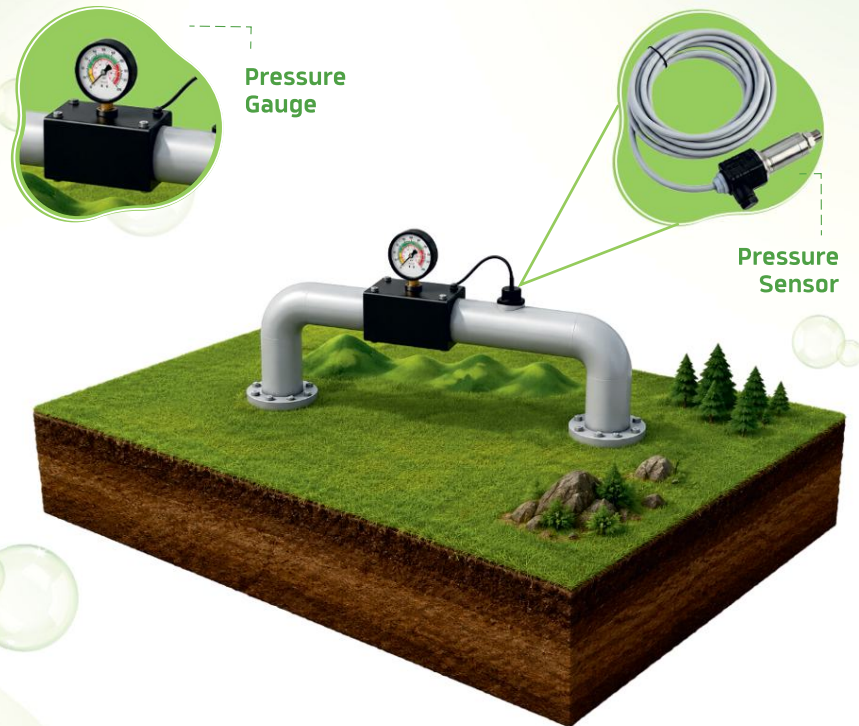
- Accuracy : $\pm 0.5\%$
- Repeatability : $\pm 0.1\%$
- Flow range : 0.3 to 2500 ltr/sec
- Pipe Size: 63mm to 300mm



Pressure Sensor

Monitoring Pressure

The **Pressure Sensor** continuously monitors the water pressure inside the irrigation pipeline and transmits the data to the **AIR (Master Control Unit)** for real time analysis.



Realtime
Pressure
Monitoring



Instant
Data Transmission



Low & High
Pressure
Alerts



Ensure
Uniform Water
Flow



Prevents
System Failure

THE COMPLETE FERTIGATION AUTOMATION MANAGEMENT SYSTEM



Auto
Dosing



Nutrient Control



Water Efficiency



Yield
Improvement



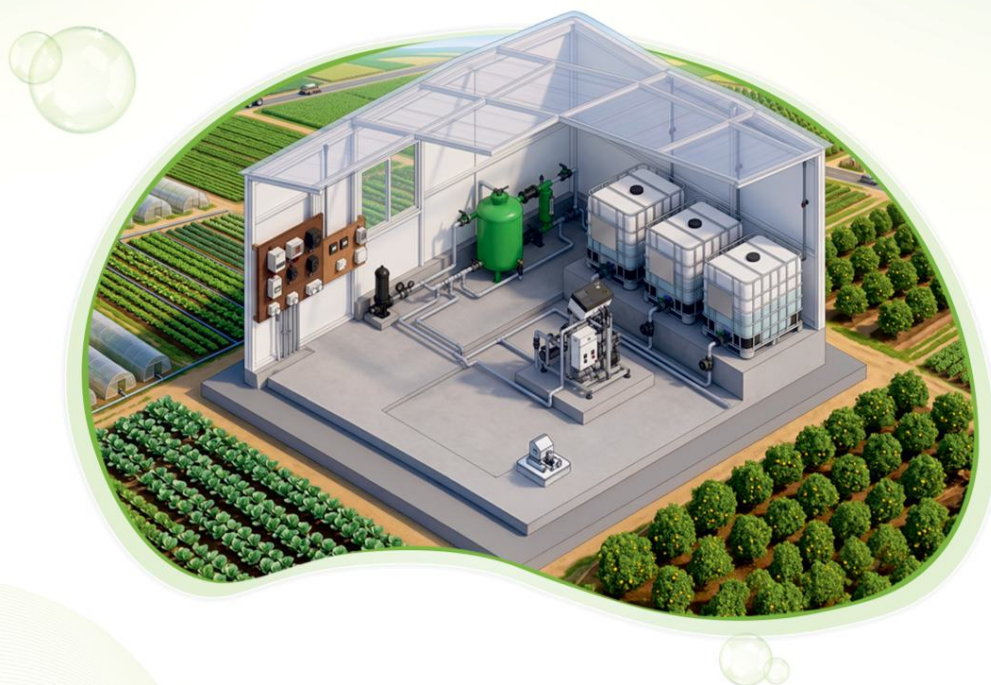
Available on



FERTIGATION

Precision Nutrition. Higher Yield. Lower Cost.

Fertigation is the process of applying fertilizers through an irrigation system. It combines fertilization and irrigation to deliver water and nutrients directly to the plant root zone in precise quantities. Instead of manually applying fertilizers across the field, fertigation ensures that crops receive the right amount of nutrients at the right time, improving nutrient uptake and reducing wastage.



**Automatic
Fertilizer Dosing**



**Improved Crop
Yield**



**Remote
Monitoring & Control**



**NPK Based
Irrigation Control**



**Inline EC & pH
Corrections**

FERTIGATION

Precision Nutrition. Higher Yield. Lower Cost.

WHY FERTIGATION

- ✓ Reduce Fertilizer Usage
- ✓ Even Nutrient Distribution
- ✓ Low Labour Dependency
- ✓ Monitor Nutrient Efficiency
- ✓ Improved Crop Performance

FEATURE HIGHLIGHTS

- **Smart automated fertigation** ensures precise nutrient delivery to every plant.
- Advanced **dosing technology** applies fertilizers accurately according to crop needs.
- **Real time** monitoring and **remote control** provide complete operational visibility.
- **Optimized nutrient management** reduces input costs and improves resource efficiency.
- **Precision fertigation** promotes healthier crops, higher yields, and better quality produce.
- Fertilizer tank **level monitoring tracks** available nutrients in real time.
- **Volume based injector** technology ensures highly accurate fertilizer injection.

MAX. INJECTORS

min 1 to 30 injectors

INJECTOR CAPACITY

250lph to 1000lph

MAX. TANK INTEGRATION

min 1 to 150 Tanks

TECHNICAL SPECIFICATIONS

Input Voltage : **230V AC / 440V**

AC No. of injector : **1-30 injectors**

Injector capacity for
pH Correction: **250 lph Max.**

Tank Integration **Min 1 tanks
to 150 tanks**

flow range: **5 to 60m³/hour**

NutriCal™

Smart Fertigation Management System

NutriCal™ is an **intelligent fertigation management** platform that seamlessly integrates with Mobitech's IoT-based irrigation automation system. It converts scientific fertilizer recommendations into automated fertigation programs, ensuring the right nutrient reaches the right crop, at the right time, in the right quantity.

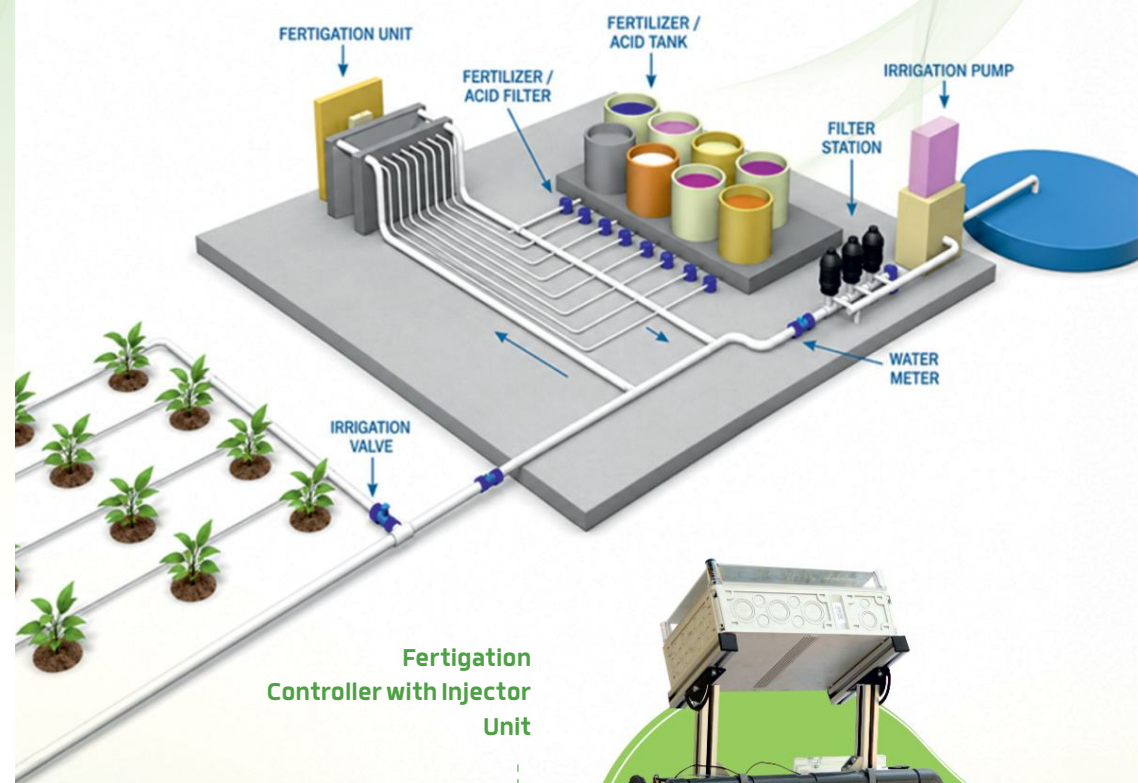
HOW IT WORKS



FEATURE HIGHLIGHTS



NutriCal™ + Mobitech = Precision Nutrition + Intelligent Automation
Plan • Calculate • Automate • Monitor • Optimize



Fertigation
Controller with Injector
Unit

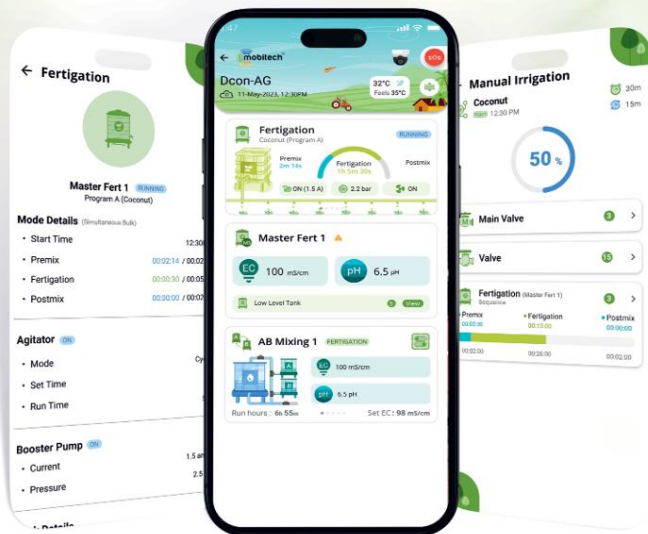
Rotameter

Solenoid Valve



Dcon Ag **FRT**

SCAN FOR APP



NEXT GENERATION POLYHOUSE AUTOMATION SYSTEM

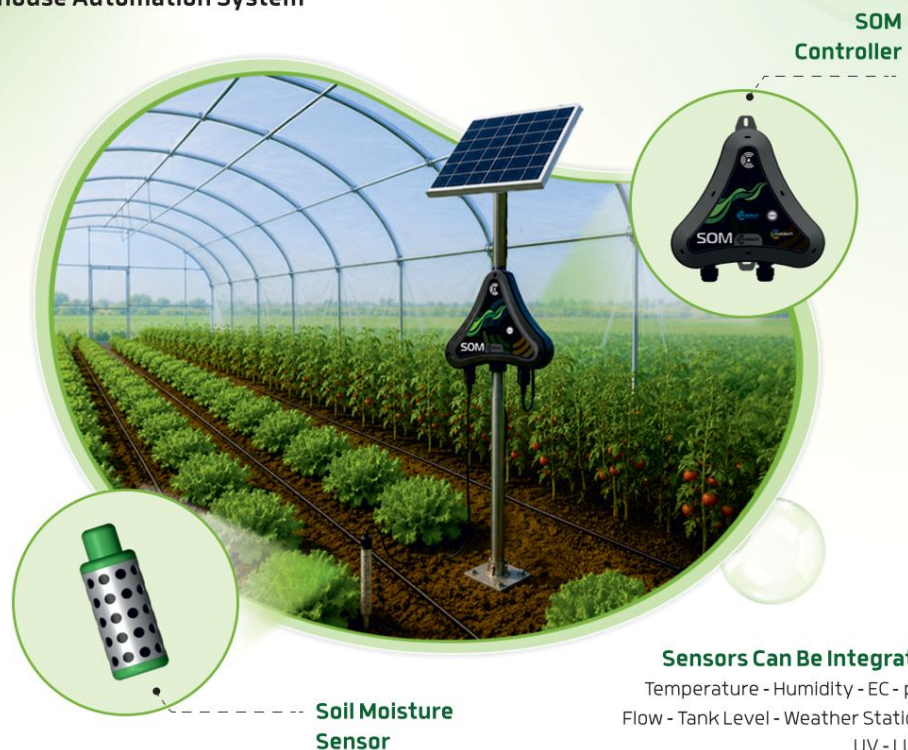
Sensor Based
FarmingFertilization
AutomationIrrigation
AutomationEnvironmental
Control

Available on



POLYHOUSE

Polyhouse Automation System



Sensors Can Be Integrate

Temperature - Humidity - EC - pH
Flow - Tank Level - Weather Station
UV - LUX

The **Mobitech Polyhouse Automation System** helps farmers efficiently manage their polyhouse environment through intelligent automation. By integrating climate monitoring, irrigation control, fertigation management, and remote mobile access, the system ensures precise resource utilization and consistent crop growth. This results in better yields, lower operating costs, and improved farm efficiency.



Climate
Monitoring



Ec & pH
Management



Environmental
Control



Fertigation
Control



Irrigation
Control

POLYHOUSE

Polyhouse Automation System

FEATURE HIGHLIGHTS

- Smart Climate Control**-Monitor and automate temperature, humidity, fans, foggers, and cooling pads.
- Automated Irrigation**-Schedule and control irrigation remotely to save water and improve efficiency.
- Precision Fertigation**-Automate nutrient dosing with recipe based fertigation for healthier crops.
- Remote Monitoring**-Track and control your polyhouse anytime, anywhere using the Mobitech Mobile App.
- Higher Yield, Better Profit**-Reduce labour, save resources, and maximize crop productivity and ROI.



HOW IT WORK ?

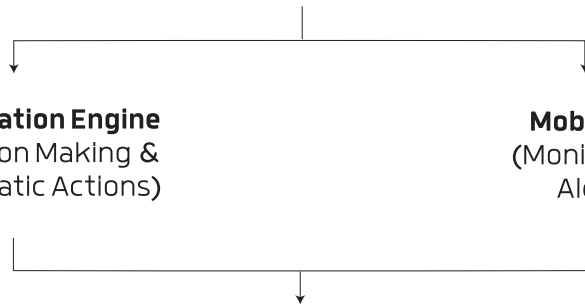
Sensors & Devices
(Temperature,
Humidity, EC, pH,UV,
LUX, Water Level,
Flow Sensors)



Mobitech Controller
(Data Collection &
Control)



Cloud Platform
(Data Processing &
Storage)



Automation Engine
(Decision Making &
Automatic Actions)

Mobile App
(Monitoring &
Alerts)

Automated Operations

Irrigation Control
Fertigation Control
EC & pH Correction
Fan Control
Fogger Control
Cooling Pad Control

COMPLETE IoT SOLUTION FOR COMMUNITY AND LIFT IRRIGATION



GET IT ON
Google Play

Available on
Available on the
App Store

LoRa

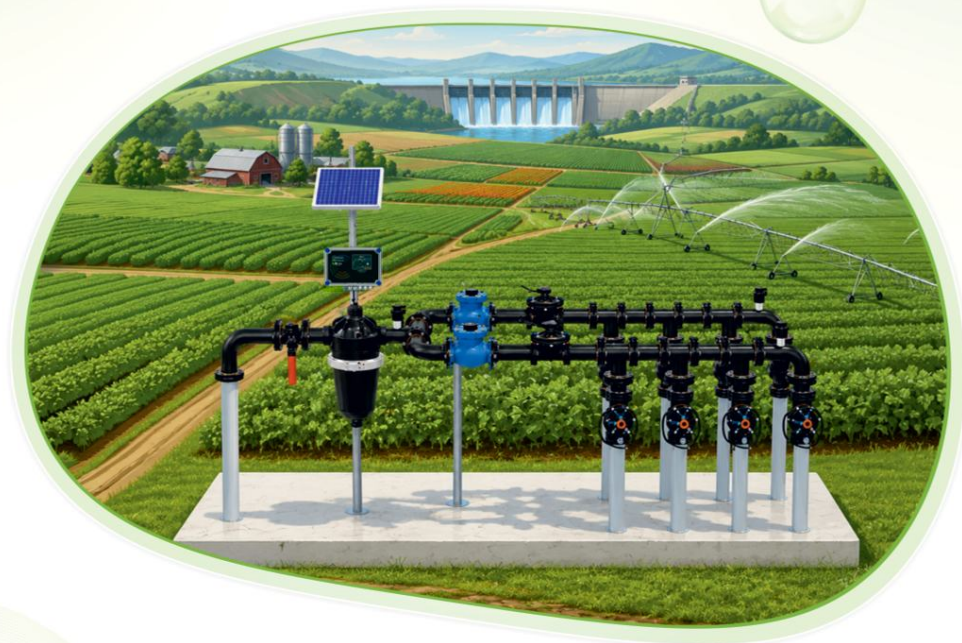
2 km*
Command Area
Coverage

**PUMP . VALVE . FLOW . PRESSURE .
ENVIRONMENTAL DATA . SCADA INTEGRATION**



Community & Lift Irrigation Management System

OMS (Outlet Management System) is an A+ and IoT-powered automation platform built for dams, reservoirs, and large irrigation networks. It enables centralized control of multiple tanks and sumps, each serving 50+ farms, ensuring efficient distribution, minimal wastage, and sustainable water use. Designed for scale and reliability, Flocon Ag delivers intelligent, low effort, high control water management.



The Power Behind OMS



4G LTE Support



Bluetooth & Wifi
Support



Mobile App & Web
Application Control



In-built GPS



Easy Support
for Sensor Integration



Community & Lift Irrigation Management System

An Overview

Efficient water management at a large scale has become essential for sustaining agriculture, optimizing resources, and improving operational control. Traditional irrigation systems are limited to individual farms, but modern water infrastructure demands integrated, data driven automation. Large reservoirs, sub-tanks, and distribution sumps must work in synchronization to ensure reliable water delivery to vast command areas. OMS addresses this challenge by enabling centralized monitoring, automated scheduling, and intelligent control across entire irrigation ecosystems transforming how water is managed from source to soil.

OMS gateway



OMS - GATEWAY

Outlet Management System

The OMS Gateway is a high performance communication link designed for agriculture field connectivity. Acts as the central brain connecting RTUs & AMS units. It offers robust control for up to **20 RTU Units and 10 AMS Units**, providing a powerful signal coverage that extends up to a 2km radius.



Outlet
Management
Unit

GATEWAY



Bluetooth



LED Indicators



OLED
Display



Integrated
GPS



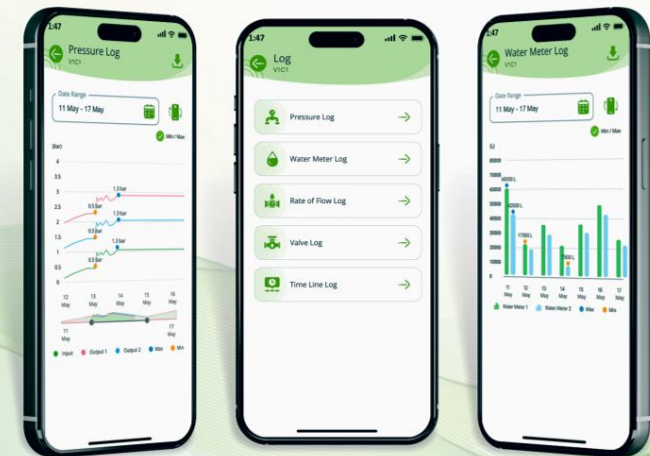
Battery
Operated

OMS - GATEWAY

Outlet Management System

FEATURE HIGHLIGHTS

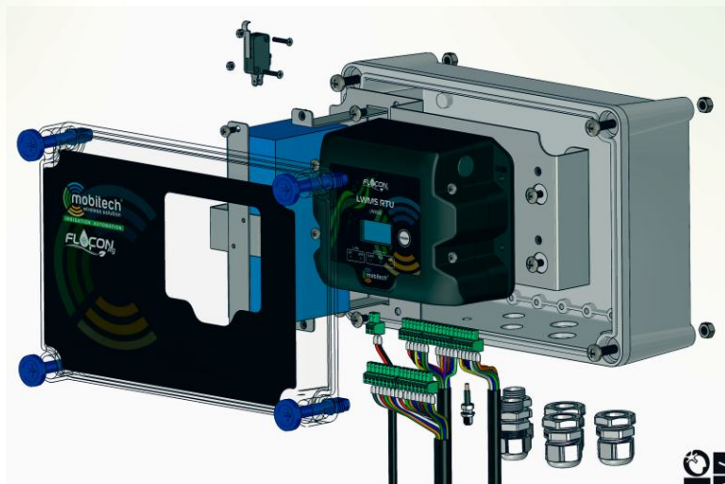
- Battery Operated with solar panel, Inbuilt BMS and battery Fuel Gauge.
- GSM Communication for server.
- GPS for location and time.
- BLE for local configuration (**Ease Installation and Testing**).
- LoRA Communication.
- LED Indication to check the RTU Communication
(**Green – Ok / Red – Communication error**)
- OLED to display flow value and valve ON/OFF status indication.
- LED Indication for battery status(**i.e., Charging, Error and Low Battery cutoff**)
- Water Flow Control & Alert.
- Water Pressure Monitor & Alert.
- Timer mode: Scheduled and Manual.
- IP rated Waterproof Enclosure.



OMS - RTU

Outlet Management System

The OMS RTU is a rugged field controller designed for real-time data acquisition and remote automation. It links seamlessly with the OMS Gateway to provide reliable site monitoring over long distances.



INTELLECTUAL
PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS



Outlet
Management
Unit



RTU



Bluetooth



LED
Indicators



Integrated GPS



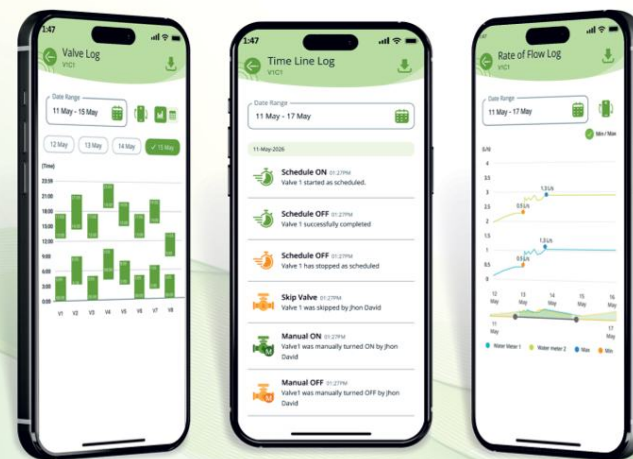
Battery
Operated

OMS - RTU

Outlet Management System

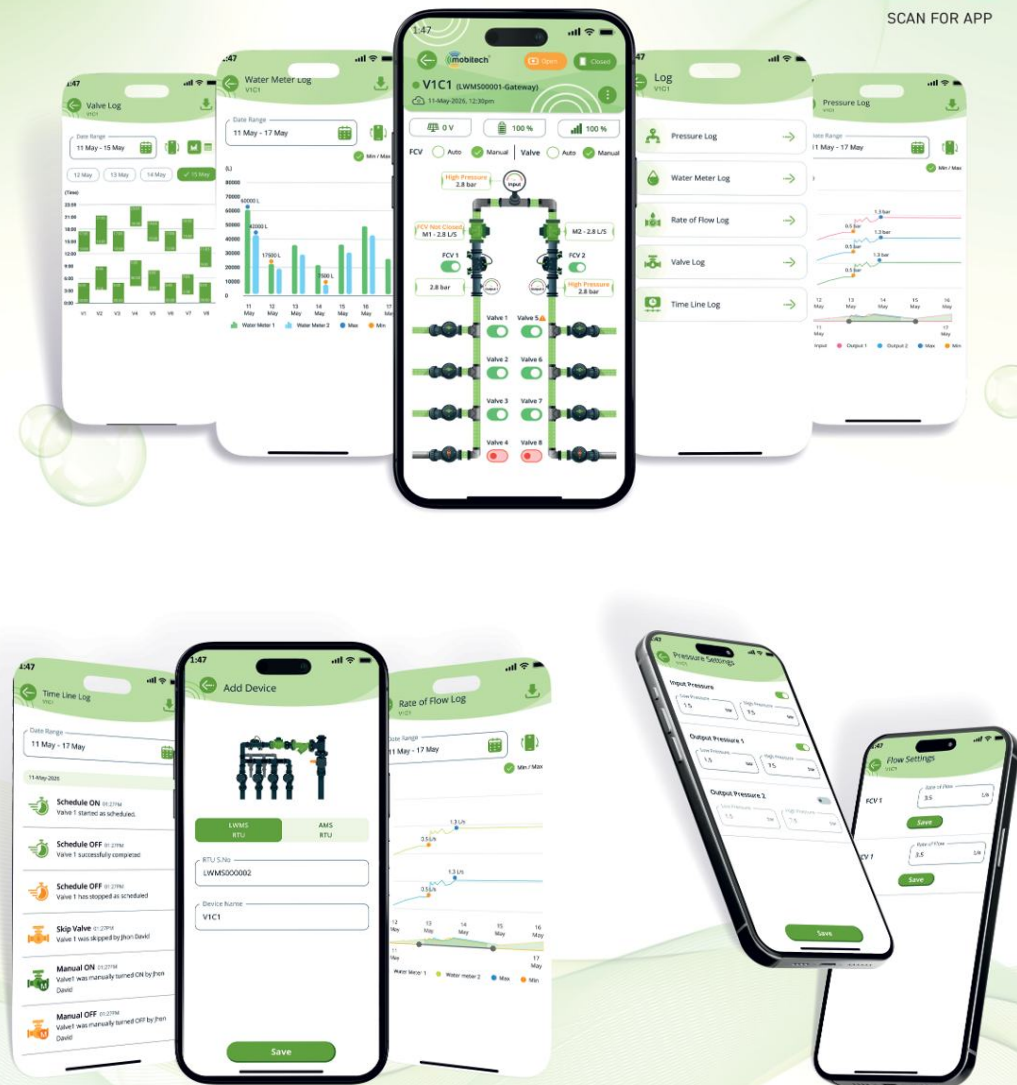
FEATURE HIGHLIGHTS

- Battery Operated with solar panel, Inbuilt BMS, and battery Fuel Gauge.
- GPS for location and time.
- BLE for local configuration (**Ease Installation and Testing**).
- OLED to display flow value and valve ON/OFF status indication.
- LED indication for battery status (i.e., Charging, Error and Low Battery cutoff)
- Water Flow Control & Alert.
- Water Pressure Monitor & Alert.
- Timer mode: Scheduled and Manual.
- IP rated Waterproof Enclosure.
- Interfacing options: Pressure sensor – 3 Nos, Water meter – 2 Nos
- Door Status Indication – 2 Nos, Flow control valve – 2 Nos & Latch Solenoid valve – 8 Nos





SCAN FOR APP



AgTrace™

NEXT GEN PLANT HEALTH ANALYSIS
THROUGH GIS IMAGERY



Available on



Ag Trace



Plant Moisture 85%

Disease & Pest 80%

Water Stress 50%

Stress Prediction 61%

Plant Health 50%



Ag Trace

Next Gen Plant Health Analysis Through GIS Imagery

Advanced Plant Stress Monitoring

Catch crop vulnerabilities long before they become visible to the naked eye. By tracking reduced near infrared reflectance and canopy temperature anomalies, **Ag Trace identifies early physiological stress**

Stress Factor Tracked

- Water deficiencies and heat waves.
- Nutrient imbalances and toxicities.
- Soil salinity and root zone damage.
- Extreme weather event recovery.



Plant Moisture Assessment

Using advanced moisture related metrics like the Normalized Difference Water Index and Moisture Stress Index, we help you optimize your water footprint.

- Identify rapidly drying areas.
- Increase irrigation precisely where moisture zones are low.

Data Driven Actions

Drought Monitoring: Detect rapid drying trends across expansive land segments.

Targeted Irrigation: Delineate low moisture zones so you can increase irrigation only where needed, cutting water and pumping costs.

Precision Scheduling: Design variable rate watering schedules built on actual spatial moisture variability.



Ag Trace

Next Gen Plant Health Analysis Through GIS Imagery

Plant Health Analysis

Ag Trace tracks the interaction between electromagnetic radiation and plant tissues. Healthy crops absorb specific wavelengths like red light and reflect others (like near-infrared). By capturing these invisible spectral patterns, we calculate advanced vegetation indices to measure crop greenness and photosynthetic activity

Key Outputs

- **Relative Health Maps:** Color coded field visuals categorizing health into Poor, Fair, Good, and Excellent bands.
- **Vigor Comparisons:** Side-by-side performance benchmarks of different fields or crop zones.
- **Temporal Trend Analysis:** Multi date tracking to verify if crop health is improving, stable, or declining over the season.



Plant Pest Disease

Remote sensing and image analysis cannot definitively diagnose a specific biological pathogen or insect species. Instead, it serves as an early detection diagnostic tool by identifying unusual vegetative anomalies that require immediate field scouting

- Localized Chlorosis
- Abnormal Canopy Reflectance
- Patchy Vegetation Decline

Key Outputs

Suspected Problem Maps: Highlighted coordinates showcasing localized health anomalies.

Risk Scouting Zones: Digital maps that guide your agronomists directly to the problem areas, saving hours of aimless field walking.

Progression Tracking: Time lapse monitoring to check if a biological threat is contained or actively spreading.



THE COMPLETE DRIP IRRIGATION SYSTEM



Uniform **Water Distribution**



Healthy Crop Growth



Water & Energy Saving



Durable & Easy Installation



• PLAIN • INLINE • RAIN • ROUND



mobitech dflow™

FLAT INLINE LATERAL PIPES

Your Solution for Precise & Efficient Micro Irrigation

The **Flat Inline lateral** is a sophisticated micro irrigation solution featuring factory integrated flat drippers. Its streamlined internal design minimizes friction and allows for longer lateral lengths, making it the ideal choice for farmers seeking high efficiency water management and maximum crop uniformity.



For Row Crops
and Vegetable Farms



Resilience



UV Resistant
Coating



Uniform
Water Flow

FLAT INLINE LATERAL PIPES

Your Solution for Precise & Efficient Micro Irrigation

FEATURE HIGHLIGHTS

- **Efficient Water Distribution:** Advanced flat dripper technology ensures every plant receives an equal amount of water and nutrients.
- **Clog Resistant Design:** Engineered with a large filtration area and turbulent flow path to prevent sediment buildup.
- **Enhanced Field Flexibility:** The flat profile allows for easier winding, unwinding, and installation across various terrains.
- **Maximized Crop Yield:** Precision irrigation reduces plant stress and promotes faster, healthier growth cycles.
- **Superior Durability:** Built from high quality materials to resist cracking and environmental degradation in tough field conditions.

TECHNICAL SPECIFICATIONS

Specification	Details
Available Size	16mm / 40cm / 4 LPH
Micron Options	600 Micron & 800 Micron
Dripper Type	Integrated Flat Emitter
Ideal For	Sugarcane, Vegetables, and Intensive Row Crops



SAND FILTER | DISC FILTER

mobitech **dflow**™

PLAIN LATERAL PIPES

The Foundation of Custom Irrigation

The **Plain Lateral** is a versatile, high strength transport pipe designed for fully customizable irrigation layouts. Without pre installed drippers, these pipes act as a reliable manifold, allowing farmers to punch in emitters exactly where needed or connect to various sprinkler and micro spray systems.



Strength



Smooth Water
Delivery



Leak Resistant
Joints



Long Lasting
Material

PLAIN LATERAL PIPES

The Foundation of Custom Irrigation

FEATURE HIGHLIGHTS

- **Customizable Configuration:** Provides the flexibility to install online drippers or jets at specific intervals tailored to your crop spacing.
- **High Pressure Tolerance:** Engineered to handle fluctuating water pressures without bursting or deforming over time.
- **Superior Environmental Shield:** Fortified against UV rays and chemical corrosion, ensuring the pipe remains flexible and crackfree.
- **Multi System Compatibility:** Seamlessly integrates with both drip irrigation setups and overhead micro sprinkler systems.
- **Low Maintenance Design:** The smooth internal surface minimizes friction and prevents the accumulation of algae or mineral deposits.

TECHNICAL SPECIFICATIONS

Specification	Details
Available Sizes	12mm / 16mm / 20mm
Micron Options (16mm)	Medium (600 Micron) & Heavy (1100 Micron)
Material	Premium Grade Polyethylene
Compatibility	Online Drippers, Micro Sprinklers, and Foggers



mobitech dflow™

RAIN PIPES

Precision Rain Fall For Every Field

The **Rain Pipe** is a revolutionary laser perforated irrigation solution designed to mimic the gentle spray of natural rainfall. It serves as an efficient alternative to traditional sprinkler systems, providing uniform overhead coverage that keeps soil moist and crops healthy without the need for high-pressure pumps.



Uniform
Water Spray



Efficiency



Portability



Easy To Install

RAIN PIPES

Precision Rain Fall For Every Field

FEATURE HIGHLIGHTS

- **Natural Micro Climate Creation:** The fine spray reduces ambient temperatures around the plant, creating an ideal growing environment for sensitive crops.
- **Broad Surface Coverage:** Engineered to spray water on both sides with equal intensity, ensuring no dry patches in your nursery or field.
- **Energy Efficient Performance:** Operates effectively even at lower water pressures, significantly reducing electricity and pumping costs.
- **Clog Resistant Laser Holes:** Nano-punched holes are designed to resist blockages, ensuring a consistent spray pattern throughout the season.
- **Rapid Deployment:** Its flexible, flat-folding design allows for quick installation and easy relocation between different plots.

TECHNICAL SPECIFICATIONS

Specification	Details
Available Sizes	20mm / 40mm
Micron Options	250 Micron & 350 Micron
Spray Range	Up to 10 - 15 FT (Depending on Pressure)
Ideal For	Leafy Vegetables, Onions, Groundnuts and Nurseries

mobitech **dflow**™

ROUND LATERAL PIPES

Precision Drip Irrigation

The **Round Lateral** is a high performance irrigation solution designed for uniform water distribution. Engineered with a smooth circular profile, these pipes provide the structural integrity and hydraulic balance needed for efficient, clog resistant drip systems in diverse agricultural landscapes.



Precision

Balanced Pressure
Throughout the line

Durability

Minimal Water Wastage
and Friction Loss

ROUND LATERAL PIPES

Precision Drip Irrigation

FEATURE HIGHLIGHTS

- **Optimized Flow Dynamics:** The round shape prevents sediment buildup and ensures a steady flow rate.
- **UV Chemical Resistance:** Manufactured to withstand harsh sunlight and common liquid fertilizers.
- **Flexible Installation:** Easily adapts to different field layouts, whether in open farms or greenhouses.
- **Consistent Crop Growth:** Delivers exact water volumes to every plant, ensuring a synchronized harvest.
- **Cost Effective Longevity:** High quality wall thickness options reduce the need for frequent replacements.

TECHNICAL SPECIFICATIONS

Specification	Details
Available Sizes	16mm / 40mm / 4mm 16mm / 40mm / 8mm
Micron Options	600 Micron & 800 Micron
Material	High-Grade Virgin Polyethylene
Application	Drip Irrigation for Row Crops & Orchards

300000+

installation across india

Manufacturer

Mobitech Wireless Solution Private Limited

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Product Catalogue

Version 2.1