



## PlantGuard Smart Automation Controller

Product Brochure



PlantGuard, with its smart watering and sensing technology, enables garden enthusiasts and farmers to gain better control over growing plants and maintaining livestock. Its 360-degree automation control enables automation of a variety of applications including watering, misting, lighting and nutrition supply. PlantGuard's SMART WiFi feature offers a real time view & tracking of scheduled tasks from remote using intuitive mobile App. It is an ideal solution for Home & Landscape gardening, Hydroponics and farming sectors.

**Fit, Forget and Free Up!**



# Fit, Forget and Free Up!



## Smart Automation Controls

- ✓ Manual and automatic zone controls for watering and other routines.
- ✓ Manage external loads (AC/DC) over WiFi/RF ports.
- ✓ Run zones in parallel or sequential.
- ✓ Easy expand zones in future (upto 48 Zones)



## Remote Management (Access Anywhere & Anytime)

- ✓ Manage and monitor zones using user friendly intuitive mobile app from Anywhere.
- ✓ Flexible Options – Access through BotBerry Cloud Service or directly over user's home network.



## Smart Programming (Schedule On The GO!)

- ✓ Configure upto 30 different smart timer-based schedules (Programs).
- ✓ Able to schedule one or more zones to run on Daily/Weekly/Custom day basis with multiple 'Start Time' options.



## Smart WiFi Pairing

- ✓ Quick pairing of device with home Wifi from touch of a button in Mobile App.
- ✓ Support Wired Ethernet LAN connection.



## Smart Sensing Technology

- ✓ Gain real time insights of water usages and other environmental factor from Mobile App.
- ✓ Perform automatic actions on zones based on sensor data.



## Real-Time Alerts & Notifications

- ✓ Real time dashboard to watch for any alerts about Dry Run, Water Leak, Valve Failure and Overload.
- ✓ Instant notifications about any zone events.

## BENEFITS

- No worries when you are away from Farm or Garden
- Free yourself from daily manual routines
- Helps to spend quality time with your loved ones
- Saves 40% of water usages
- Increases Operational Efficiency
- No/Low Maintenance and Cost Effective





# Fit, Forget and Free Up!



## Remote Operations with existing RF & WiFi

- ✓ Control loads over any Smart RF or WiFi powered sockets.
- ✓ Control high voltage AC/DC loads (Pumps or Lightings) over WiFi/RF



## DC Ultra Low Power (No Risk of Shocking)

- ✓ No worries with power cuts. Works in DC power and could run for a few weeks in UPS power supply. So, no connectivity issue due to power cuts
- ✓ Easy and safe handling without the risk of electric shocking.



## Seasonal Adjustments (Extended/Reduced Run Duration)

- ✓ Increase or decrease the zone run duration dynamically depending on climate condition and season.
- ✓ Useful for watering and misting applications

## APPLICATIONS

- Home Garden
- Lawn/Landscape
- Hydroponics
- Farms

## DEVICE ACCESSORIES

- Wired Ethernet Connector
- RF Transmitters



**Irrigation Solenoid Valve**

## Supporting Modules



**Water Flow Sensor**

# Deployment Usecase



## PRODUCT ORDERING

- **Controller**
  - PG-MC-DC-L-2P (2 Zones)
  - PG-MC-DC-L-4P (4 Zones)
  - PG-MC-DC-L-8P (8 Zones)
  - PG-MC-DC-EL-8P (8 Zones)
  - PG-EXP-DC-16P (16 Zones)
- **Irrigation Valves**
  - BBV-FM-020 (20mm Size)
  - BBV-FM-025 (25mm Size)
- **Flow Sensor**
  - BSFS-020 (20mm Size)
  - BSFS-025 (25mm Size)
- **Ethernet Connector**
  - PG-ETH-RJ45
- **RF Connector**
  - PG-RF-TRANS



**BOTBERRY SOLUTIONS LLP** is a new Era company offers AI/ML based Smart Automation and Robotic solution for precision Farming, Garden, and Industrial needs by unifying IoT, Cloud and Communication(5G/BLE/LORA/NB-IoT) technologies

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