



# PRODUCT SPECIFICATION

## CONTROLLERS

A **valmont** COMPANY

### GALCON SMART IRRIGATION CONTROLLER - GSI

Galcon GSI is a web based irrigation controller that makes it easy to optimize your landscape watering schedule from your PC using “cloud” based technology.

#### FEATURES

- DC Controller - 24 Station + master valve, battery operated
- AC Controller - 12 Station or 24 station + master valve, AC connection
- Advanced battery saving technology allows DC controller to be “offline” while continually managing field based irrigation activities
- Pulse Water meter connection
- Leak detection using pulse water meter
- Fertilizer injection based on % of station on time (meter not supplied) see next page for more fertilizer options
- Flow sensing capabilities enabling both high and low flow reaction that can help reduce unnecessary water loss and prevent equipment damage
- Scheduling can be done daily, weekly or cyclic up to 31 days
- Eight (8) irrigation programs
- Four programs on at any time
- Four start times per program
- Interval watering - ideal for loop watering, up to 255 cycles
- Station run times 1 minute to 24 hours (1 second to 24 hours on AG model)
- Selectable non watering window by calendar date
- Seasonal settings with budgeting
- Secure online irrigation management - anywhere, anytime (requires switched circuit data sim only)
- Irrigate by time, area or volumetric settings
- Friendly online user interface is easy to learn and simple to operate
- Email alarm warnings
- Log reporting
- Cloud based application allows access from any computer with internet access
- No software to download or dedicated computer required
- Over the air (OTE) firmware upgrades automatically
- Easy installation - indoor or outdoor
- Rain sensor input terminal
- Requires SIM card to be supplied and installed (speak to your representative for details)
- Iphone IOS free no charge - allows manual switching of stations or programs
- Android OS free no charge - allows manual switching of stations or programs



See next page for Fertilizer Control and Electrical Specifications

MODELS	CODE
12 Station AC series controller with plug in power cord	GSI12AC
24 Station AC series controller with plug in power cord	GSI24AC
24 Station DC series controller, requires 4 x D cell alkaline batteries	GSI24DC-V2
Additional software upgrade to allow fertilizer control	GSIAG

Specifications subject to change without notice - Product drawings / Images are representative only and are subject to change CONTROLLERS\_GSI\_V2.07.24

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### **GS I AG FERTILIZER INJECTION (Requires Web based software upgrade - code GSIAG)**

Galcon GSIAG is web based fertilizer control allowing the user to select two types of fertilizer injection and five methods of fertilizer injection into open field and nursery watering systems. Fertilizer leak detection with alarm reporting via email to mobile or pc, software available for existing GSI controllers or new irrigation controller that makes it easy to optimize your fertilizing schedule from your PC using "cloud" based technology.

#### **FEATURES**

- Injection based on Fertilizer meter > selectable
- Injection based on flow rate > selectable
- Fertilizer leakage detection > report back to mobile or PC
- Station run times are selectable for time, quantity, l/m<sup>3</sup> or mm
- Five methods of injection protocol
- Water before fertilizer 0 - 99hrs (not available if injecting by percentage method)
- Water after fertilizer 0 - 99hrs (not available if injecting by percentage method)
- Uses last station on GSI24AC as fertilizer output
- Uses last station on GSI24DC-V2 as fertilizer output

#### **Fertilizer Injection Methods**

##### • **Litres**

0 - 6500 litres of fertilizer can be injected in one sequence, water before fertilizer and water after fertilizer available

##### • **Time**

0 - 99hrs in time of fertilizer can be injected in one sequence, water before fertilizer and water after fertilizer available

##### • **L/M<sup>3</sup>**

0 - 6500 litres of fertilizer can be injected for every cubic meter of water, water before fertilizer and water after fertilizer available

##### • **Fragmented Litres**

0 - 6500 litres of fertilizer will be injected evenly over the watering time per station between water before fertilizer and water after fertilizer ie: station run time 40 minutes, water before fertilizer is 5 minutes and water after fertilizer is 5 minutes therefore injected fertilizer will be evenly spread over 30 minutes watering time

##### • **Percentage %**

0 - 100% of fertilizer will be injected in the middle of the station run time based on the percentage chosen. ie: Station run time 40 minutes, fertilizer percentage 10%, controller will irrigate without fertilizer for 18 minutes and then add fertilizer for 4 minutes then complete irrigation for another 18 minutes without fertilizer.

#### **ELECTRICAL SPECIFICATION 240 VAC SERIES**

- Transformer input: 240V 50Hz with power lead
- Transformer output: 24vac 2.5 amp
- Station output: 0.5 amps per station
- Maximum output: 4 + 1 (Master)
- Electronic short circuit protection
- Non-Volatile memory for program data
- Backup Battery: 4 x 1.5v A type
- Cellular modem: Quad band GSM modem intergrated (GPRS class 10)
- Operating ambient temperature - 10° to 60°C

#### **ACTIVE INPUTS**

- Pulse water meter - counts water flow rate and returns a pulse signal to input
- Pulse fertilizer meter - counts fertilizer flow rate and returns a pulse signal to input

#### **ELECTRICAL SPECIFICATION DC BATTERY SERIES**

- Input Options: Batteries 4 x 1.5V D size Alkaline type
- Input Options: Batteries 2 x 3.6V D size Lithium
- Output: Operates DC Latching solenoids only
- Maximum output: 1 + 1 (Master)
- Cellular modem: Quad band GSM modem integrated (GPRS class 10)
- Operating ambient temperature -10° to 50°C

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