

## COMMERCIAL SATELLITE CONTROLLERS

### Galaxy<sup>™</sup>

### Constellation<sup>®</sup>

### Galaxy<sup>™</sup> Decoder

### Constellation<sup>®</sup> Decoder



**Wall Mount Enclosure**



**Heavy-Duty  
Stainless Steel  
Pedestal**  
(Top Opening Style)

**Plastic  
Pedestal Enclosure**



### FEATURES & BENEFITS

Constellation<sup>®</sup> [CON] and Galaxy<sup>®</sup> [GAL] Satellite Controller's  
Stand-alone controller's or network satellites for commercial and sports turf applications

#### NETWORK

Patented true two-way communication (peer to peer) allows an Constellation<sup>®</sup> Satellite Controller to operate as a stand-alone controller or as part of a satellite network with or without a central computer [CON only]

- Sensor inputs allow satellites to monitor; store and share data from multiple sensors across a network [GAL requires CIU module to share network data].
- Hardwire, Ethernet and radio communications can be used on the same network
- Cell phone and handheld radios can be used as remotes
- Backward and forward compatible
- CON network can be monitored and controlled from and at any satellite through Signature's patented Peer to Peer communication technology, through a central computer with Constellation<sup>®</sup> desktop software, or via the internet with our eConstellation<sup>®</sup> web service, or both for that matter
- Hardwire ready configuration allows for quick and inexpensive installation of communication between satellites

#### SATELLITE CONTROLLER

- Multilingual user interface
- Enable and disable commands with delay timer
- User-selectable, 12-hour or 24-hour clock format
- Semi-automatic, manual and delayed manual station control
- Global, controller/satellite, program water budgeting from 0-999%
- Open, Overload and short-circuit protection
- User-selectable Water Budget or ET-adjusted control for each irrigation schedule/program
- Master valves (2 N/C and 2 N/O) and local and remote pump capabilities and pump start
- Accommodates up to two sensors and shares an additional 4 sensors across a network [CON only & GAL requires an CIU module to share network data]
- Flow monitoring and reporting of over-flow or under-flow conditions
- Generates alarms, flow and status reports which can be transmitted to a user defined-location and/or stored in the local alarm log

- Pedestal units can be configured for 96 traditional stations, or 250 decoder addresses (6 valve modules max. within a pedestal)
- Wall-mount units can be configured for 48 traditional stations, or 250 decoder addresses (3 valve modules max. within a wall mount)
- Manages 128 fully independent, customized schedules/programs [GAL has 32 fully independent, customized schedules/programs]
- Each schedule/program has 8 start times and can accommodate up to 48 events; stations can be run in any sequence and you have the capability to run the same station multiple times within the same schedule/program, each with a different run time if needed
- Programs can be linked to start when another program ends—from any satellite on the network [CON only]
- Each schedule/program has 8 start times and can accommodate up to 48 events; stations can be run in any sequence and you have the capability to run the same station multiple times within the same schedule/program, each with a different run time if needed
- Programs can be linked to start when another program ends—from any satellite on the network [CON only]
- Each schedule/program has a completely independent watering calendar which can be All Months, Months, Weeks, Odd/Even or interval up to 99 days
- Virtually unlimited flexibility for specific cycle scheduling/programming
- Multiple repeats and pauses within a schedule/program
- Suitable for hybrid applications where two-wire systems and traditional wired systems coincide

#### NETWORK

#### COMMUNICATIONS OPTIONS

- Hardwire (Standard)
- Digital Spread Spectrum Radio (License Free) [900 MHz and 2.4 GHz]
- Ethernet Modem

#### REMOTE

#### COMMUNICATIONS OPTIONS

- Handheld Maintenance Radio [VHF]
- Cellular Phone (CDMA and GSM)
- Ethernet Modem

#### Note:

Other options available — options vary by location; check with your local distributor

### Summary Features List

#### COMMUNICATION FEATURES

#### SATELLITES (24VAC)

GALAXY<sup>™</sup> GALAXY-RT<sup>™</sup> CONSTELLATION<sup>®</sup>

Peer-to-Peer Communication

✓

#### PROGRAMMING FEATURES

Number of Zones (Wall Mount)

8-48

8-48

8-48

Number of Zones (Pedestal)

8-96

8-96

8-96

Remote Master Valve / Pump Starts

✓

Master Valve / Pump Starts

1 N/O

4 N/O or N/C

2 N/O, 2 N/C

Number of Independent Programs Per Controller

32

32

128

Start Times per Program

8

16

8

Multiple Start Types per Program

✓

✓

✓

Events per Program

48

64

48

Real Time Flow Sensing

✓

✓

✓

#### SENSOR FEATURES

Local Sensors per Satellite

2

0

2

Remote Sensors per Satellite

4

Sharing of Sensor Data -  
from Interface Unit

✓

Coming Soon

✓

Sharing of Sensor Data -  
from any Satellite

✓

#### SATELLITES (2-Wire)

GALAXY<sup>™</sup> GALAXY-RT<sup>™</sup> CONSTELLATION<sup>®</sup>

✓

250

250

250

250

250

250

1 N/O

4 N/O or N/C

2 N/O, 2 N/C

32

32

128

8

16

8

✓

✓

✓

48

64

48

✓

✓

✓

## DECODER OPTIONS

### LOW POWER TYPE

**CD-111LP:** Low Power Field Decoder;  
1- address, 1-solenoid

**CD-121LP:** Low Power Field Decoder;  
2- addresses, 1-solenoid per address

### STANDARD DECODER TYPE

**CD-112:** Field Decoder;  
1- address, up to 2-solenoid per address

**CD-122:** Field Decoder;  
2- addresses, up to 2-solenoids per address

**CD-111:** Field Decoder;  
1- address, 1-solenoid

**CD-132:** Field Decoder;  
3- addresses, up to 2-solenoids per address

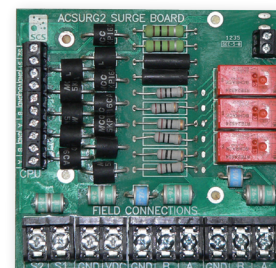
**CD-142:** Field Decoder;  
4- addresses, up to 2-solenoids per address

### 2-WIRE ACCESSORIES

**ACDECI:** 125-Zone Decoder Modulator Board

**ADPROG:** Decoder Field Programmer

**TWSPK:** Decoder Surge Protection Kit



### SIGNATURE CONTROL SYSTEMS, INC.

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