

COMMERCIAL SATELLITE CONTROLLERS

Galaxy[™]

Constellation[®]

Galaxy[™] Decoder

Constellation[®] Decoder



Wall Mount Enclosure



Heavy-Duty
Stainless Steel
Pedestal
(Top Opening Style)

Plastic
Pedestal Enclosure



FEATURES & BENEFITS

Constellation[®] [CON] and Galaxy[®] [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[®] 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[®] desktop software, or via the internet with our eConstellation[®] 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)			SATELLITES (2-Wire)		
	GALAXY™	GALAXY-RT™	CONSTELLATION®	GALAXY™	GALAXY-RT™	CONSTELLATION®
Peer-to-Peer Communication			✓			✓
PROGRAMMING FEATURES						
Number of Zones (Wall Mount)	8-48	8-48	8-48	250	250	250
Number of Zones (Pedestal)	8-96	8-96	8-96	250	250	250
Remote Master Valve / Pump Starts			✓			✓
Master Valve / Pump Starts	1 N/O	4 N/O or N/C	2 N/O, 2 N/C	1 N/O	4 N/O or N/C	2 N/O, 2 N/C
Number of Independent Programs Per Controller	32	32	128	32	32	128
Start Times per Program	8	16	8	8	16	8
Multiple Start Types per Program	✓	✓	✓	✓	✓	✓
Events per Program	48	64	48	48	64	48
Real Time Flow Sensing	✓	✓	✓	✓	✓	✓
SENSOR FEATURES						
Local Sensors per Satellite	2	0	2	2	0	2
Remote Sensors per Satellite			4			4
Sharing of Sensor Data - from Interface Unit	✓	Coming Soon	✓	✓		✓
Sharing of Sensor Data - from any Satellite			✓			✓

CONTROLLERS

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

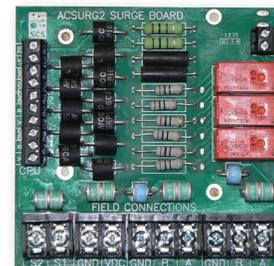
CD-142: Field Decoder, 4- addresses, up to 2-solenoids per address

2-WIRE ACCESSORIES

ACDECI: 125-Zone Decoder Modulator Board

ADPROG: Decoder Field Programmer

TWSPK: Decoder Surge Protection Kit



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